<110> Ruben et al.

<120> 94 Human secreted proteins

<130> PZ029P2

<140> Unassigned
<141> 2002-01-18

<150> 60/263,230
<151> 2001-01-23

<150> 60/263,681
<151> 2001-01-24

<150> 09/461,325
<151> 1999-12-14

<150> PCT/US99/13418
<151> 1999-06-15

<150> 60/089,507
<151> 1998-06-16

<150> 60/089,508
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<150> 60/090,112
<151> 1998-06-22

<150> 60/090,113
<151> 1998-06-22

<160> 550

<170> PatentIn Ver. 2.0

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<213> Homo sapiens

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tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg   180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg   240
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact   300
ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca accccatcg   360
agaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc   420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct   480
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga   540
ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg   600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc   660
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc   720
gactctagag gat   733

<210> 2
<211> 5
<212> PRT

<213> Homo sapiens

<220>
<221> Site
<222> (3)
<223> Xaa equals any of the twenty naturally ocurring L-amino acids

<400> 2
Trp Ser Xaa Trp Ser
 1   5

<210> 3
<211> 86
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic sequence with 4 tandem copies of the GAS binding site
      found in the IRF1 promoter (Rothman et al., Immunity 1:457-468
      (1994)), 18 nucleotides complementary to the SV40 early promoter,
      and a Xho I restriction site.

<400> 3
gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc   60
cccgaaatat ctgccatctc aattag   86

<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic sequence complementary to the SV40 promter; includes a
      Hind III restriction site.

<400> 4
gcggcaagct ttttgcaaag cctaggc   27

<210> 5
<211> 271
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes GAS
      binding sites found in the IRF1 promoter (Rothman et al., Immunity
      1:457-468 (1994)).

<400> 5
ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg   60
aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc   120
gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat   180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt   240
ttttggaggc ctaggctttt gcaaaaagct t   271

<210> 6
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer complementary to human genomic EGR-1 promoter

sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a
Xho I restriction site.

<400> 6
gcgctcgagg gatgacagcg atagaacccc gg   32

<210> 7
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer complementary to human genomic EGR-1 promoter
      sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a
      Hind III restriction site.

<400> 7
gcgaagcttc gcgactcccc ggatccgcct c   31

<210> 8
<211> 12
<212> DNA
<213> Homo sapiens

<400> 8
ggggactttc cc   12

<210> 9
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer with 4 tandem copies of the NF-KB binding site
      (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the
      SV40 early promoter sequence, and a XhoI restriction site.

<400> 9
gcggcctcga ggggactttc ccggggactt ccggggact ttccgggact ttccatcctg   60
ccatctcaat tag   73

<210> 10
<211> 256
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes NF-KB
      binding sites.

<400> 10
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caattagtca gcaaccatag tcccgcccct aactccgccc atcccgcccc taactccgcc   120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga   180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg   240
cttttgcaaa aagctt   256

<210> 11
<211> 899
<212> DNA
<213> Homo sapiens

<400> 11

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ccacgcgtcc  ggaaaaagta  caagcccctc  tcaaatggtt  caagtttcaa  atattagacc    60
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tttctgtcat  aagtgtgcat  tgtgctcagt  catttatttc  agtgacccaa  acagagccca   180
gtccagctgt  ttgtattttc  cctgcagtgg  gaagtggact  agggccatgt  gactaagaaa   240
gccagcctgg  gggctgtctt  ttcacctaca  gatgttttaa  tgtgcttaac  attatccaat   300
actagcaacc  gagatagtct  aaataccaca  gcaggatctg  attagctttt  tcagatcact   360
gcctttattt  gctgtttgca  aaaaagctta  atccagtgct  agagatcagg  cttcctgctg   420
agccctgggg  tagtttctct  cattctttgt  gttcacagtg  gcaggcgtta  gtgagcagat   480
tcctcctcct  cctaaattaa  agctgtaaag  tagtaactgt  agtagcaagg  gataaagaga   540
aggaagaaaa  cccaagggaa  aaaagaagac  tgtctattca  taccaagtag  tttccttgat   600
atacacaaaa  gaaagagttt  ctaatatgaa  ttcataaata  ctgacctcag  tgtctcttct   660
actcagtgca  cagctattaa  gtttttattag gtttcagttg  taactacttt  gtgtggatat   720
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tttattagcc  ataacagtgg  cccttctctt  attctttttca gggctgatat  cttttttatt   840
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<210> 12
<211> 1140
<212> DNA
<213> Homo sapiens

<400> 12
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taaaaggcgt  cctcattatc  tttgctgggt  ttggcatcct  cttttcatggc cgmtttagat   180
aattgcctta  tgctgctaat  aacatcagga  acctggctgg  ggtctgtggc  gcggaaaacg   240
tggcaggcca  tctgcgactc  ggggtcgtcg  ggctgcgcct  tgatcaggta  ggcaaagtag   300
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cagggcagca  taggcagcgt  ggtcctgtgg  tccaggcacg  acccccccaac gtaccacagc   600
cggaaccgct  tatcgcttgg  cttcccgggg  ccgggctgag  ctgagacgcc  cggctcgggc   660
tccaggggggt  gcgggaacgg  ctcatcctga  atgcagctgg  gcggctycat  aactctcgcc   720
tcaccagggc  accgcggagg  ccggccgggc  gcaccgcgcc  ccccactccc  gcgcagaagg   780
cgccgccgaa  actgtgccaa  ctgccgcacc  gggctyccgc  gcctgcctgg  gagcggcgcg   840
accccgaact  ccgcgcttca  gcagccctgc  cccatgcagc  acttccacgg  gcgcggctcg   900
gaggctccgg  cggccgggcac cgaggcaagc  gcccggcagg  cgagggcggg  ttaaatgggc   960
atcctcctcc  tcgggctggc  gcctcgggca  ggacctcccc  ttcctccgtc  gcgggtttgc  1020
agggtcagag  gaccacgccg  agggtccccg  cggccgctct  agaggatccc  tcgaggggcc  1080
caagcttasg  cgtgcatgsg  acgtcatagc  taatctccct  ataggggagtt gcaaaagggt  1140
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<210> 13
<211> 1445
<212> DNA
<213> Homo sapiens

<400> 13
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tcaacaggat  attcttcaag  gaaaatgaac  cccacactag  gcctggccat  ttttctggct   180
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ttgagcgagg  tccaaggatg  gaagcaaagg  atggcagcca  aggagcttgc  aaggcagaac   300
atggacttag  gctttaagct  gctcaagaag  ctggcctttt  acaaccctgg  caggaacatc   360
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catgagggct  tccattacat  catcccacga  ctgacccaga  agacccagga  cctcaaactg   540
agcattggga  acacgctgtt  cattgaccag  aggctgcagc  cacagcgtaa  gttttttggaa   600
gatgccaaga  acttttacag  tgccgaaacc  atccttacca  actttcagaa  tttggaaatg   660
gctcagaagc  agatcaatga  ctttatcagt  caaaaaaccc  atgggaaaat  taacaacctg   720
atcgagaata  tagaccccgg  cactgtgatg  cttcttgcaa  attatatttt  ctttcgagcc   780
aggtggaaac  atgagtttga  tccaaatgta  actaaagagg  aagatttctt  tctggagaaa   840
aacagttcag  tcaaggtgcc  catgatgttc  cgtagtggca  tataccaagt  tggctatgac   900
gataagctct  cttgcaccat  cctggaaata  ccctaccaga  aaaatatcac  agccatcttc   960
atccttcctg  atgagggcaa  gctgaagcac  ttggagaagg  gattgcaggt  ggacactttc  1020
tccagatgga  aaacattact  gtcacgcagg  gtcgtagacg  tgtctgtacc  cagactccac  1080
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gtgcacaagg  ctgagctgaa  gatggatgag  aggggtacgg  aaggggccgc  tggcaccgga    1260
gcacagactc  tgcccatgga  gacaccactc  gtcgtcaaga  tagacaaacc  ctatctgctg    1320
ctgatttaca  gcgagaaaat  accttccgtg  ctcttcctgg  gaaagattgt  taaccctatt    1380
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gccgc                                                                     1445
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<210> 14
<211> 1208
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (59)..(59)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (79)..(79)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (814)..(814)
<223> n equals a,t,g, or c

<400> 14
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aggtagtgct  ctgcagggcc  acgggaggac  tcagtgacga  cttgaaagca  tcaaacacag     180
tggagggctc  atacggggtg  ctcagtagat  gggcgcatca  ttttatagaa  tactgaggcc     240
cagagaggga  aggtgtcttg  tctgtggtcg  catggggggct  cagtgggaaa  gccgggacta     300
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ccaggggcag  cccaggagtc  ctggatgggg  cagcagtcat  gttggatggg  gctggggtgt     420
tggctctccc  tttctgggct  ctcaggagtg  gtcagggcta  gccccagatc  tcccagacca     480
agaagaggag  cagcctgtgg  ggagacactc  atgccctgac  atgagtcagt  gcatcaagag     540
aggccatcag  ccagtgggat  tcagcaagca  tgcctggcgc  tgcctggtag  ggtgctgccc     600
atgggaggaa  gagaagagga  gctgccaccc  atttggggcc  ytccttctct  gggtcctcag     660
atttgccctt  cagcccarag  tctatgaaga  ccccgcggcc  ctggatggtg  gggaggaggg     720
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tatcttctta  gaagtggacc  caaggcaccc  ggancttgtc  agcagctggc  ttcagagccg     840
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gccagcctga  ccagagggga  ggtggatggc  actttccaga  gcccaggttc  ttatggcatt    1020
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attggctcca  tcacatcaga  gtggctgagg  gcagttgctc  tgtgttggtg  aaattgctgt    1140
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<210> 15
<211> 1175
<212> DNA
<213> Homo sapiens

<400> 15
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gagcgggccg  aggactccag  cgtgcccagg  tctggcatcc  tgcacttgct  gccctctgac      60
acctgggaag  atggccggcc  cgtggacctt  cacccttctc  tgtggtttgc  tggcagccac     120
cttgatccaa  gccaccctca  gtcccactgc  agttctcatc  ctcggcccaa  aagtcatcaa     180
agaaaagctg  acacaggagc  tgaaggacca  caacgccacc  agcatcctgc  agcagctgcc     240
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gctgctcagt gccatgcggg aaaagccagc cggaggcatc cctgtgctgg gcagcctggt    300
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gcaggtgaag ccctcggcca atgaccagga gctgctagtc aagatccccc tggacatggt    420
ggctggattc aacacgcccc tggtcaagac catcgtggag ttccacatga cgactgaggc    480
ccaagccacc atccgcatgg acaccagtgc aagtggcccc acccgcctgg tcctcagtga    540
ctgtgccacc agccatggga gcctgcgcat ccaactgctg cataagctct ccttcctggt    600
gaacgcctta gctaagcagg tcatgaacct cctagtgcca tccatgccaa ggtggcccaa    660
ctgatcgtgc tggaagtgtt tccctccagt gaagccctcc gccctttgtt caccctgggc    720
atcgaagcca gctcggaagc tcagttttac accaaaggtg accaacttat actcaacttg    780
aataacatca gctctgatcg gatccagctg atgaactctg ggattggctg gttccaacct    840
gatgttctga aaaacatcat cactgagatc atccactcca tcctgctgcc gaaccagaat    900
ggcaaattaa gatctggggt cccagtgtca ttggtgaagg ccttgggatt cgaggcagct    960
gagtcctcac tgaccaagga tgcccttgtg cttactccag cctccttgtg gaaacccagc   1020
tctcctgtct cccagtgaag acttggatgg cagccatcag ggaaggctgg gtcccagctg   1080
ggagtatggg tgtgagctct atagaccatc cctytctgca atcaataaac acttgcctgt   1140
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa                                1175
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<210> 16
<211> 2374
<212> DNA
<213> Homo sapiens

<220>
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<222> (556)..(556)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2344)..(2344)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2346)..(2346)
<223> n equals a,t,g, or c

<400> 16
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atagacaatt actgggtttt tgttttsttt tttgtttttt tttcaagcga cattgtgatt    120
gtattctttt ataccttatt gggtttgtwt ttttacttac catggtaaaa atccatttga    180
gtgagcattc ttgagtggtt ttgcattgtg tcttcacaca gttgtaccat aattraagct    240
gcttttggcc ttgctctggt aaagcagtgt agcacacact cttaatttct aaggaagtgt    300
agcgttccct tgatgaatcr ggagagagat catgaacttg gtgtatgagg tacwctggtc    360
tgtcttttca agctggggta agtaggcatc tgcaactacc agtcatatat tttgtaaccc    420
actggcccgt gtgtgccctg attgctgagg ctagacagat ccatcagggc ttagacagtt    480
agtgagggtc ctgggagtag gcgaagggaa gtccagttaa tgtgtgaagc tgctgggaat    540
tgtgtagttg gcaganattt gagcaggtaa agcttccgat gtggaccaag tacaagtact    600
aagatcacgg cacatcctct aaaaggaagt cagatatttg ggactgtcca ggaaatctgg    660
gagatagtgt gatggtggca tagctctttc tcatctgaca cttttttatgc ttactcagag    720
tacgaatgcc aagtattgag acaatacaga ataatatttg aattgagata ttcctagaaa    780
gacaggtcaa catggctctt ggtcaagaat gacttagagt tccttgccta gtgctcggct    840
ggcttcatgt catagttgag gctgggtcca caggtgggat aagattccac caaagctcac    900
caggctggta ctgaccccag agtgtctccc aggccctacc ttattttagc attcttttga    960
attgagtttc agaggtgatt cagtagtaaa tgtatgggga gaagaattag aaaaacccat   1020
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cctttctagc atttctaaaa gatggcagtt tcttggagac cacatctttg caaggcagta   1140
ttttcaaaat ataaaatagc ccccaaacca aacctttaaa catgaagggc aaatgggtaa   1200
agacttaata ttcttttgt gtcaagtata cttaatgtaa atctagttgc ttgtgaagta   1260
gtaatagtaa tagctcctat tattttgagc actgactata tgtgctcagc ctctgtgctt   1320
ggatctgaca tcactatctc atttccttct ctcagcagtt ctggaaggag tacctaccct   1380
gggtatgctt tgcccagggt cacagaagtt actgaattag agcagggatt caccccaagt   1440
gtaaaaactc aagagctcct gcacttaggg gtttacttca ctaatcatct aacctcattt   1500
attatgctta aggcttttt tcagctgacc tgactttgct ttaggtcatt cttttttatg   1560
ccagcactgt ttgaaagtgc atgtcaagcg gctagctcca catttggtct tcgaaggga   1620
aacgcatgca gttaaaacgt aatgtacatg atggaattgg gaggatcata gtctcagttt   1680
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cccccccyct ttctcccatc taggagacct ccrtggactg cagcaaaatt aaaaataaag     1740
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tacttgcttt gttgttcttg aggtcatcaa cacacattct ggttattcca gagctagaag     1860
ctcttctggt tgctaactca gttataagaa gatgaaagac ataactagmc ttacgtattt     1920
cagtagtttg cyctttaatt ttttcccytac ycytagtttc caggcgacct cccaagaagg     1980
gtatcagtcg actggataaa cagatgagaa agttcacaga tataaggaaa aaaagcagat     2040
cygcacacgc agtgaaaatc agcattgagg gcaacaaaat gccattgtga ccttgccygg     2100
aatgtgtccc catctctact ctaagaaatg cgcaatggac tctttggaga aagaagatat     2160
tttaaaacat ttttagtgtg tctgtaaatg gttcagcgtg tatcagatgt tgtcatagga     2220
ctcacatttc tctcagttat atttaaaacc gttgtgtact ttgtacaaag gaatactagt     2280
catacttcta taaactttac acaataaaat ttcattctgg twaaaaaaaa aaaaggggg     2340
gccncnctaa aaaaccaagc ttactttccc ttgc                                 2374
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<210> 17
<211> 1595
<212> DNA
<213> Homo sapiens

<400> 17
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tgtttattca ttttctaatc tatgctaaaa gcttttatca taagtcttgg gaacagttgt      180
catttacaca ttacttactg cagatatctt gactaaatca ggagggaggt gtttaatcat      240
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aacttttcag gatctatttc ctatgtggaa ttctttcaaa tgctttcttc acggaaatgt      540
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ctctggaaca aaactagatt gggttggttg gttggttggt tggttcttct tggagtttat      660
gtatatcaac aaaggatttg aggtcacttc tgagaataat atatcaaaaa gggtactggt      720
tagagaaaat ataagaataa aatccagccc agagagagta ctaagaatgt aaatgtgagt      780
aaaaagccag ttttgaattc tatttacgtg acagtgatgc atgctgtcat ttaattctca      840
caaaaactct cgttatatat tttatcctca ttttgtagat gaggatagca ggcttagaag      900
gatttggtaa tttactaatg tcatgatagg gatttaaatc tggaattgaa gtaattgtgt      960
ctcactactc taagctaatt gaacatcaga cattaagaga gatgatcctt attgaagtaa     1020
accagttcct aaaggatcct tgtagtatac atacttggga atcctgttca gagtaatttt     1080
taggaagtag gtacacagta gtaagtcttc tgttgcctca gttggccata gatggaattc     1140
tgtgtttgcc actcattaga aatttaggaa tttttaggcag ggcacggtgg ctcacacctg     1200
taatcccagc actttgggag gccgaggcgg gcagatcacc tgaagtcagg agttcaagac     1260
cagcctgacc aacatgggga aaccccgtct ctactaaaaa tacaaaatta gccgggcgtg     1320
gtggtgcata cctgtaatcc cagctactcg agaggccgag gcgggtgaat cacttgaggc     1380
cagaagttca agaccagcct ggccaacatg gcaaaactcc gtctctacta aaaatacaaa     1440
aattagccag gtgtggtaac gcagacctgt aatcccagct actcgaatca ggagaatcac     1500
ttgaacccag gaggcagagg ttgtcagtga gtccgagatc gcactctagc ctgggtgaca     1560
gagtgagact ctgtctaaaa aaaaaaaaaa aaaaa                                 1595
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<210> 18
<211> 1287
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1188)..(1188)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1202)..(1202)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1230)..(1230)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1264)..(1264)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1277)..(1277)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1282)..(1282)
<223> n equals a,t,g, or c

<400> 18
aattcggcac gagaattttt tttggtgatg gcatgttcag aatcttggat ccctaagttc      60
aatatattgg acatatttag gaactctgga aattatgttg ttttcacata tctagtaact     120
tactagatga atcagtagat ttcattaaag tatatctaat aacagataat tatgatgtac     180
ttctgggttg acatgcatgt ctctcattat cagctatcag tattagtgtc atgctttgga     240
gacagttatc tttttgaaggt tttggggttc ttatgaacct catttttccc aggaagtttc    300
tgtaattcct cctatgccta ttcttgtctt ttctatctgc ttgcagtgta cgttatttag     360
atcagaggca attattttttc aggaagaaag aaatcatcaa gtgacactcc taaaggcagt    420
aaagacaaaa tttcagtctg gaaccggtct cagaakgcct gtattagaat atgcaaagtc     480
catccaaatt atatccaaat atacttgtgg cacagtgcta ccagttttta aaatgagacg     540
ttactatgta gggcagaagt gccaatgagg agagagaagg agctgttcag tttgccctcc     600
agccgccacc tccttctatt attggctgaa tgaattagtg caaaattagt agccaaaagg      660
gtagacagtg tgaatggaag ggaggagaag gacagaaact ttaatctcca ggaaagctta     720
tttatccttt aaaaaatgga aagttgggca ggcgcagtgg ctcacgcctg taatgccagc    780
actttgggag gccgaggcgg gcagatcacg aggtcaggag atcgagacca tcctggctaa    840
cacagtgaaa ccctgtctgt actaaaaaaa aaaaaataga aaaagccagg cgtggtggca    900
ggcgcctgta gtcccagcta ctcgggaggc tgtggcagga gaatggtgtg aacctgggag    960
gcggagcttg cagtgagccg agatcgcacc actgcactcc agcctgggca acagagcaag   1020
actccgcctc aaaaaaaaaa aaggaaagtt gagtgtattc catgtacctg aacatgctat   1080
ttaaaactgt gggctacttt cagaatgtag actaatgkgk tctcgaccat tggaatgaat   1140
gagaatttgk atttgatagg aaagtcagaa agtcctcgag agtctttnta aaaccgggcc   1200
gngggcccca tcgaattttt caacccgggn tggggtacc caggtaaagt ggtaccccaa     1260
attnggcccc tataagngga gncggaa                                       1287
```

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<210> 19
<211> 1396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (668)..(668)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (739)..(739)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (751)..(751)
<223> n equals a,t,g, or c

<400> 19
gctggtaacc aggtggaacc atttcacgtg tccctcccca gctgcctcag tccccttccc      60
cacctgggcc acagcatggg ggttccctca cccaccgcct ggccctctct tgcctcgttc     120
cacactcaga aaaaagcaag gatcagacaa gaagaagagt ccccaccccct cccgtccccg    180
caggagctgg cgttctctgc gctaagggtg ttttttagag tgatgttttt tctcctctgt     240
ctcgttgccc tggagatcaa agggttcact ttctcagcga ggggtgccag ggacagattt     300
```

```
ctaaacaagt ctggaccgca gccaggaaaa aagatgaaaa caacacactg taaacagcct    360
ctattcagca aacctggtca ggtcagaggg gctytgagga aagcaagagg gaggcaggag    420
gagagggaag cggtgggggat gtgggggggg cgggggcaca gttatcctga atacataaaa    480
acaagtgagg tcactgaggt cagggatagt cccaaacatc cccaagtcca gcctttcctg    540
acaaccaggg ttacatgcag agtcccaggc catctgcagg ttttggaggc cctgtgcggg    600
gcctgggggt ctatgtttaa acacgccctt gtggtggtcc aagtycccag aascagggga    660
agggcgantc tgggctctga atggcargtg gggcagctcc amctcatcct cctacatggc    720
acccagcact gggctgcang cytggtcccc nacttgccgc aggaatcaat cctgccagct    780
cagagccscc gtgtgacaaa caccccagga acagaggaga catgagaaag ggactcacca    840
gcccactgcc caggatgtag aagtcgtcgc aggagaagat ggtgccgggg taggaggaga    900
agaccagctt gttgccggga accagcgggt agtcccctgt gcaggcagag cgagccaggg    960
atgctggtca gacaggcaca ggtggaggcc cctgcaccct acctaacaag acacaggcac   1020
aggggcacag gcaggcctyc gaggaagccc ccactgtgtc ctttttgtca tttagcaaat   1080
gaggtcattg ggcatataaa agtgcatata cgtgcaagta aaaataaaag ctagcagcaa   1140
aacttatata gttggsccty catgtccgtg ggttccacat ccttggattc aatsgamtgg   1200
ggaccaaaaa tactaggaaa aaaacatgat taaaagaaa caacacagct gggtgcagtg   1260
gytsacacct gtaatccctg cactttggga ggccaaggca ggcggatcac gaggtcagga   1320
gaccaagacc atcctggcta acacggtgaa acccgtctct actaaaaata caaaaaaaaa   1380
aaaaaagggc ggccgc                                                   1396
```

<210> 20
<211> 1277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1207)..(1207)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1272)..(1272)
<223> n equals a,t,g, or c

<400> 20
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cgtttattca gcagaacatc agcttcctgc tgggctacag catccctgtg ggctgtgtgg     60
gcctggcatt tttcatcttc ctctttgcca cccccgtctt catcaccaag cccccgatgg    120
gcagccaagt gtcctctatg cttaagctcg ctctccaaaa ctgctgcccc cagctgtggc    180
aacgacactc ggccagagac cgtcaatgtg cccgcgtgct ggccgacgag aggtctcccc    240
agccagggc ttccccgcaa gaggacatcg ccaacttcca ggtgctggtg aagatcttgc    300
ccgtcatggt gaccctggtg ccctactgga tggtctactt ccagatgcag tccacctatg    360
tcctgcargg tcttcacctc cacatcccaa acattttccc agccaacccg gccaacatct    420
ctgtggccct gagagcccag ggcagcagct acacgatccc ggaagcctgg ctcctcctgg    480
ccaatgttgt ggtggtgctg attctggtcc ctctgaagga ccgcttgatc gacccttttac    540
tgctgcggtg caagctgctt ccctctgctc tgcagaagat ggcgctgggg atgttctttg    600
gttttacctc cgtcattgtg gcaggagtcc tggagatgga gcgcttacac tacatccacc    660
acaacgagac cgtgtcccag cagattgggg aggtcctgta caacgcggca ccactgtcca    720
tctggtggca gatccctcag tacctgctca ttgggatcag tgagatcttt gccagcatcc    780
caggcctgga gtttgcctac tcagaggccc cgcgctccat gcagggcgcc atcatgggca    840
tcttcttctg cctgtcgggg gtgggctcac tgttgggctc cagcctagtg gcactgctgt    900
ccttgcccgg gggctggctg cactgcccca aggactttgg gaacatcaac aattgccgga    960
tggacctcta cttcttcctg ctggctggca ttcaggccgt cacggctctc ctatttgtct   1020
ggatcgctgg acgctatgag agggcgtccc agggcccagc ctcccacagc cgtttcagca   1080
gggacagggg ctgaacaggc cctattccag cccccttgct tcactctacc ggacagacgg   1140
cagcagtccc agctctggtt tccttctcgg tttattctgt tagaatgaaa tggttcccat   1200
aaataanggg catgagccct tcctcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   1260
aaaaaaaaaa anaaaaa                                                  1277
```

<210> 21
<211> 1781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1494)..(1494)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1496)..(1496)
<223> n equals a,t,g, or c

<400> 21

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gctgggtgcc atggcggcag cggcggtgac aggccagcgg ctgagaaccg cggcggccga    60
ggaggcctcg aggccgcagt gggcgccgcc agaccactgc caggctcagg cggcggccgg   120
gctgggcgac ggcgaggacg caccggtgcg tccgctgtgc aagccccgcg gcatctgctc   180
gcgcgcctac ttcctggtgc tgatggtgtt cgtgcacctg tacctgggta acgtgctggc   240
gctgctgctc ttcgtgcact acagcaacgg cgacgaaagc agcgatcccg ggccccaaca   300
ccgtgcccag ggccccgggc ccgagcccac cttaggtccc ctcacccggc tggagggcat   360
caaggtgggg cacgagcgta aggtccagct ggtcaccgac agggatcact tcatccgaac   420
cctcagcctc aagccgctgc tcttcgaaat ccccggcttc ctgactgatg aagagtgtcg   480
gctcatcatc catctggcgc agatgaaggg gttacagcgc ascagatcct gcctactgaa   540
gagtatgaag aggcaatgag cactatgcag gtcagccagc tggacctctt ccggctgctg   600
gaccagaacc gtgatgggca ccttcagctc cgtgaggttc tggcccagac tcgcctgggc   660
aatggatggt ggatgactcc agagagcatt caggagatgt acgccgcgat caaggctgac   720
cctgatggtg acggagtgct gagtctgcag gagttctcca acatggacct tcgggacttc   780
cacaagtaca tgaggagcca caaggcagag tccagtgagc tggtgcggaa cagccaccat   840
acctggctct accagggtga gggtgcccac cacatcatgc gtgccatccg ccagagggtg   900
ctgcgcctca ctcgcctgtc gcctgagatc gtggagctca gcgagccgct gcaggttgtt   960
cgatatggtg aggggggcca ctaccatgcc cacgtggaca gtgggcctgt gtacccagag  1020
accatctgct cccataccaa gctggtagcc aacgagtctg tacccttcga gacctcctgc  1080
cgctacatga cagtgctgtt ttatttgaac aacgtcactg gtgggggcga gactgttttc  1140
cctgtagcag ataacagaac ctacgatgaa atgagtctga ttcaggatga cgtggacctc  1200
cgtgacacac ggaggcactg tgacaaggga aacctgcgtg tcaagcccca acagggcaca  1260
gcagtcttct ggtacaacta cctgcctgat gggcaaggtt gggtgggtga cgtagacgac  1320
tactcgctgc acggggggctg cctggtcacg cgcggcacca agtggattgc caacaactgg  1380
attaatgtgg accccagccg agcgcggcaa gcgctgttcc aacaggagat ggcccgcctt  1440
gcccgagaag ggggcaccga ctcacagccc gagtgggctc tggaccgggc ctancncgat  1500
gcgcgcgtgg aactctgagg gaagagttag ccccggttcc cagccgcggg tcgccagttg  1560
cccaagatca ggggtccggc tgtccttctg tcctgctgca gactaaaggt ctggccaatg  1620
tcttgcccca ccccgccagc cgcgatacgg cgcagttcct atattcatgt tatttattgt  1680
gtactgactc catctgcccc gtcaaataaa aaaccacaag gttcgaaaaa aaaaaaaaaa  1740
aaaattgggg ggggggcccg gtaacccatt tggcccttta g                      1781
```

<210> 22
<211> 1491
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1425)..(1426)
<223> n equals a,t,g, or c

<400> 22

```
ggaagtgtag gtacagattc aggtcataga aaggcccata tgtcccaata ttatttytyt    60
tacagagaaa acagatgaaa ttracaattt tttttktytt tccacagacc atcaccggcc   120
tcctgcagak tttgatgtcc aggcaagtag aggatgtggc tttccttccc cttcctcatc   180
ccgtcttctc ttttttccttt ttctttccat tggtttaagt agatcattgt gcaaacattg   240
cgggcaaggg gagagaagcc agtggtctca gctaggtcct caccctcagc tgctgctccc   300
agacagaagc tgacttgagt gctggccaga gaatcaggaa ccagtcactt cccacgaaag   360
caggacagag acaccgcctg tttcagtccc aaagagctgg ccagaacggt ggggcgtgtg   420
tggggaaaat ggtgtgatgc tgggctggct tgggaccctg tgaggggagg aacggaagc   480
aaaagcttga tgttcttggc tccacttggg aaactgaaac cagccttctc tgtggtttac   540
tggcccagaa ctgaagtatc tccattccca ctcaggattg cagggtgggc caggggtgc   600
agctcagctg tgtccaagaa taggctctca ggagaacggg ctgggctctc tcagccgagg   660
gctgggtcag aacttcagga aatctaagtc ctggactcgt tagccccaag ctggggtggg   720
tcccatgctg tgctggcctc tggagggtgg ggcaraaagc ctgagcatat ggcgagcttg   780
tggtctcctt gaaggaggag aggcgcactc ctggaccagc cagagagcca gaggtggctg   840
acggtgttct cacctgaacs gytacccatg tgttgcacag gtgtccccag tttgggaccc   900
```

```
attctgcact ctgcatctca ctcctctatt ctacctcctt acctcaaaac aactccgctt      960
ttcctcttga atctctgatt tcatgaatgc tcccccatcc atcccgaggc gaggaatctt     1020
gcactgtctt tggaaggaaa ggaaaggatg ggagaggggc tggaagcatt ggctagtaga     1080
tgatcgaggc tttctatacc accaccaagg tgtgtatttt ctcatcatcc tggttgtgtc     1140
aggctgtccc tagagatcac cctgacctca gtgtttaaga agaagggcca gatgcagtgg     1200
ctcatgcctg taatcctagc actttggaag gccgaggcag gcagatcacc tgaggtcagg     1260
agctcgaggc cagcctggcc aacaaggaga aaccctgtct ctactaaaaa tacaaaaatt     1320
agccaggcat ggtggtaagc acctataacc ccagctactt gggggctgag acaggagaat     1380
tgcttgaacc tgggaggcag aggttgcagt gagccgagac cacgnngttg cactccagcc     1440
tgggcaacaa gagtgaaact ctgtctcaaa aaaaaaaaaa aaaactcga g               1491
```

```
<210> 23
<211> 1839
<212> DNA
<213> Homo sapiens
```

```
<400> 23
aattcggcac gagtgcaggt cgactctaga ggatccccgc taagaagcta gggctattgg      60
tcttcccata cacacatcag aactgaggca ccatgcaagg gggccagaga cctcatctcc     120
tcttgctgct gttggctgtc tgcctggggg cccagacgcg caaccaagag gagcgtctgc     180
ttgcggacct gatgcgaaac tacgaccccc acctgcggcc ggctgagcgc gactcagatg     240
tggtcaatgt cagcctgaag cttaccttga ccaacctcat ctccctgaat gaacgagagg     300
aggccctcac aactaacgtc tggatagaga tgcaatggtg cgactatcgc ctgcgctggg     360
acccaaaaga ctacgaaggc ctgtggatat tgagggtgcc atctactatg tctggcggc     420
cagatatcgt cctggagaac aatgtggacg gtgtcttcga ggtggctctc tactgcaatg     480
tcctcgtgtc ccccgacggt tgtatctact ggctgccgcc tgccatcttc cgctcctcct     540
gctccatctc tgtcacctac ttcccctccg attggcagaa ctgttccctc atcttccaat     600
cccagactta cagcacagct gagatcaact tgcagctgag ccaggargat gggcaagcca     660
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accgaccggy taaaatgctc ctggactccg tggctcctgc agagraggcg ggccaccaga     780
aggtggtgtt ctacctgctt atccagcgca agcccctctt ctacgtcatc aacatcatcg     840
cccctgtgt gctcatctcc tcagtcgcca tcctcatcta cttccttcct gctaaggcgg     900
gcggccagaa atgcacagtg gccaccaacg tgctcctggc ccagactgtc ttcctttcc      960
ttgtggctaa gaaggtgcct gagacctccc aggcagtgcc actcatcagc aagtacctga     1020
ccttcctcat ggtggtgacc atcctcatcg tcgtgaactc tgtggtcgtg ctcaatgtgt     1080
ccttgcggtc cccccacaca cactccatgg cccgtggggt ccgcaaggtg ttcctgaggc     1140
tcctgcccca gctgttacgg atgcatgtgc gcccactagc tccagctgct gtccaggatg     1200
cccggttccg actccagaat ggctcttcct cagggtggcc catcatgcct cgagaggaag     1260
gggacctctg tctgcctcga agcgaactcc tctttaggca aaggcagcgc aggaggattag     1320
tgcaggcagt attggagaag ctagagaatg gtccagaagt gaggcagagc caggagttct     1380
gtggcagcct gaagcaagcc tccccagcca tccaggcctg tgtggatgcc tgtaacctca     1440
tggctcgtgc ccgacgccag cagagtcact ttgacagtgg gaacgaggag tggttgctgg     1500
tgggccgagt gctggaccga gtctgcttcc tagccatgct ctccctcttc atctgtggca     1560
ctgctggcat cttcctcatg gcccactaca accaagtgcc tgacctgccg ttccccggag     1620
acccccgccc ctacctgcct ttgccagact gagccaacca atccctcctg ggccctggag     1680
tcagctatga gggccatgct gtttgtagag ctgtatcccg tgttgatgct gagtgtgctc     1740
ttggggaaat acccaaggct tcctgggaga agatagagaa ataaagagac agaggggaaa     1800
aaaaaaaaa aaaaaaaaa aaaaaaaaa aactcgtag                               1839
```

```
<210> 24
<211> 1384
<212> DNA
<213> Homo sapiens
```

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<400> 24
ggcacgagca gttattttca aaatggctat ggaaaacacg taagttttaa aatatgccct      60
ctttctcgtt ttaaaaaatt attactattg tccatacatg ttactctttt catctagatt     120
tatcatgttt ctttggcctc cagtctctgg tgtttgccta agctttatta gagacaggtc     180
atttctacct atgtgtcatt ttatctatgt cttgatctta tgtaattcaa ttgctcttta     240
agattatgtt ctcttctcat gtttggttta tccattatcc aaattttcca tttctttaac     300
ctgttatccc ttgactcttt acagttctac ctttttattc acttagtctt ttaccctttt     360
tttattcgtt caccccttt tgttgtttca ggtactcctt acttatctcc ttagcctttt     420
cttcttcatc ttctttctta cttttctcct acttctcatt ttacataata cttactttt     480
gcttcagtct tcaaccattg tcaatcttgt ttttccttat attccatttt actttctgaa     540
ctactcttta atctcctgtt caacactacc tttccttctt ttttatcccc tcttatttac     600
acggtgatta caacagtttg gtatagtctg atttatctga ttgtaaaatt gatgagttgg     660
```

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atgtaccaaa aatataagga agctaaattc aaagaaggta aaagatttgc ttgtgtcacc      720
tagctggtta attttggcat atgcattgtt tctctacata gtctatgtag tcaaacaggt      780
ttcatttaga aatcattccc cataagaagg gtttcaattt gatttgaaca ggcagagatg      840
gaaaaaattt cctctctgat aactactgct actgttgtat accagtagaa atataacagc      900
agcacttagg ttagaagaag ctcattagct attcagaata aatttcattt ttcttaattt      960
ttggtaatca tatctcagcc tgttgaattt aacttaaact ctgaaagaat tttggttgcc     1020
atttaatttt taggtttcct taatgatagg gacctaataa tttgtttaa aaaatttgtc     1080
ttggctggga gcagtggctc atgcctgtaa tcccagcact ttaggaagcc aacattggag     1140
gattgcatga gcccaggatt tcgagaccag cctgggcaac acagtgaaac ctcatctcta     1200
caaaaagtta aaaaattaac caactgtggt gccacatgcc tgtagtccca gctgcttggg     1260
aggatgaggt gagaggattt cttgagtcca ggagtttgag gctgcagtga gctatgatca     1320
cactcctgct cttcagccta ggtgacacag caggacacta tctttgaaaa aaaaaaaaa     1380
aaaa                                                                 1384
```

```
<210> 25
<211> 1681
<212> DNA
<213> Homo sapiens
```

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<400> 25
tctctgggcc aatatggcag cgcccagcaa caagacagag ctggcctgga gtccgcggct       60
ggccgcgtga gtaggtgatt gtctgacaag cagaggcatg agctgggtcc aggccaccct      120
actggcccga ggcctctgta gggcctgggg aggcacctgc ggggccgccc tcacaggaac      180
ctccatctct caggtccctc gccggctccc tcggggcctc cactgcagcg cagctgccca      240
tagctctgaa cagtccctgg ttcccagccc accggaaccc cggcagaggc ccaccaaggc      300
tctggtgccc tttgaggacc tgtttgggca ggcgcctggt ggggaacggg acaaggcgag      360
cttcctgcag acggtgcaga aatttgcgga gcacagcgtg cgtaagcggg gccacattga      420
cttcatctac ctggccctgc gcaagatgcg ggagtatggt gtcgagcggg acctggctgt      480
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gaacgtcaac cccttcccag tgccccggga cctgccccag gaccctgtgg agctggccat      780
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gagtcccgat cagcaggccg ccctggcccg ccacaatcca gcccggcctg tctttgttga      960
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a                                                                    1681
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<210> 26
<211> 1949
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> (1130)..(1130)
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (1948)..(1948)
<223> n equals a,t,g, or c
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<400> 26
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gctacgccgt gggcacttcc tcaacgacct gtgcgcgtcc atgtggttca cctacctgct    60
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ggccaggtgg cgacgggctg tgcacaccgc tcgtgggcta cgaggccgac cgcgccgcca   180
gctgctgcgc ccgctacggc ccgcgcaagg cctggcacct ggtcggcacc gtctgcgtcc   240
tgctgtcctt cccccttcatc ttcagcccct gcctgggctg tggggcggcc acgccgagtg   300
ggctgccctc ctctactacg gcccgttcat cgtgatcttc cagtttggct gggcctccac   360
acagatctcc cacctcagcc tcatcccgga gctcgtcacc aacgaccatg agaaggtgga   420
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ctggctcctg ctgcacctgc agggctcgtc gcgggtggag cccacccaag acatcagcat   540
cagcgaccag ctggggggcc aggacgtgcc cgtgttccgg aacctgtccc tgctggtggt   600
gggtgtcggc gccgtgttct cactgctatt ccacctgggc acccgggaga ggcgccggcc   660
gcatgcggag gagccaggcg agcacacccc cctgttggcc cctgccacgg cccagcccct   720
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agggcccct caggacggct ggagcctgga ggagacagcc acgggggtggt gggctgggcc  1800
tggacccac cgtggtgggc agcagggctg cccggcaggc ttggtggact ctgctggcag  1860
caaataaaga gatgacggca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa  1920
aaaaaaaaaa aggggggggg gctagttnt                                   1949
```

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<210> 27
<211> 2286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2262)..(2262)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2264)..(2264)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2272)..(2272)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2278)..(2279)
<223> n equals a,t,g, or c

<400> 27
gctgatgtcg aggttcatcc tgaaccacct ggtgctggcc attccactga gggtgctggt    60
ggttctgtgg gccttcgtct tgggcctatc cagggtcatg ctggggcggc acaatgtcac   120
cgacgtagct tttggctttt ttctgggcta catgcagtac agcatcgtgg actattgctg   180
gctctcaccc cataatgctc cggtcctctt tttactgtgg agtcaacgat gacaccatct   240
cattgattat ggcaccagga agtctgaagg tttccacatt cgatgatgtc aacctaaacc   300
agcagccatc ccgcttgtcc ctcttaggca tttcaggctt cctttgggat ttcaggtgtc   360
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ccatgatctt gatgtgctgc taggctggag cacacactgg ccattactga acacagccat    420
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atgtttccag acaactgca aagaaacaa gctgaggtgg ttatactgtt gctgttaaaa    540
gttggtatca gtaagatttg tgttttgtga taatccctaa atcaacatac cacttgtaaa    600
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gcatgagaga gggcagagaa actaagttgc tggggaaagt tagaggaact gaaagtttgg   1140
gaataggctg accacatatt atgccagtga ccagtatgac aggagatggg gccctgctgc   1200
cagtcatctc cactgaataa agaataatgc tcctctttca gggtaataaa gtggggaaaa   1260
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ctcawaatca aatcatttgc rttcccacag catcctgaat accgactacc tcttcacttg   1860
ctaaagcagc taaactgtga agctctaagt ggtttgggtt tgttgtttaa ccttagcgag   1920
atcctttaac tgcagcaata ttcaagccag atatttggaa gcaaatgata ttttcctcttg   1980
cagtgtccac aaatctgaat attaggggca tgaaattagg cttaccatct gatttgtaat   2040
tacaattttg gaattctctg ttttagttgc tgaggcctga gttttctggc tcttaaagca   2100
tagatcattt cacctgatgt ttttgaagca tcctaagtac agtagagtag aaaactgatt   2160
tctttgttaa ttgtacactg aataatgcct tttaaaaatc aaaataaaat taacaaataa   2220
tggtgaaaaa aaaaaaaaaa aaaaaaaact cgaggggggg cncnaaaaca antcgacnna   2280
tagtga                                                                2286
```

<210> 28
<211> 530
<212> DNA
<213> Homo sapiens

<400> 28
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ccacgcgtcc gaaaattttt tcaatatttt ttattaatct ttttataaaa tgaaaagaaa     60
ctcctatgat cgattaagga aggtggttat ggctgggtgg ttcagggggtt tttttgggtt    120
tcttttttttt tttctttgtc tttttaacct taagctgttt aagttgaagc attctcagat    180
gtttggggggg aaacatcctc ttaaaatggg tccttgtgct tgccttctgg ggaggcggtc    240
ctgagcaggt gaatcataag gcatttatgc atatgttata tgcggactgc acccacctct    300
ccccccccagc ctttgcctct tgggttgttg tgctgctttc cccttacttt gctacatttc    360
tatagttaag ttggtttttac ttgaatgatt catgtttagg gggaaaatga aaatctccct    420
taaaatttgt ttcaactcct cctgcaaata aaataaatga agtggcagat gtaaaaaaaa    480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                  530
```

<210> 29
<211> 1296
<212> DNA
<213> Homo sapiens

<400> 29
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cttcatcagc tgcgacctcc tcaccgcttt cctcttatac cgcctgctgc tgctgaaggg     60
gctggggcgc cgccaggttg tggctactgt gtcttttggc ttcttaaccc cctgcctatg    120
gcaktatcca gccgcggtaa tgcggactct attgtcgcct ccctggtcct gatggtcctc    180
tacttgataa agaaaagact cgtcgcgtgt gcagctgtat tctatggttt cgyggtgcat    240
atgaagatat atccagtgac ttacatcctt cccataaccc tccacctgct tccagatcgc    300
gacaatgaca aaagcctccg tcaattccgg tacactttcc aggcttgttt gtacgagctc    360
ctgaaaaagc tgtgtaatcg ggctgtgctg ctgtttgtag cagttgctgg actcacgttt    420
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ttttatcacc tgactaggcg ggatatccgt cacaacttttt ctccgtactt ctacatgctg    540
tatttgactg cagagagcaa gtggagtttt tccctgggaa ttgctgcatt cctgccacag    600
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ctcatcttgc tttcagctgt gtctttcgcc tattacagag acctcgtttt ttgttgtttt    660
cttcatacgt ccattttttgt gactttttaac aaagtctgca cctcccagta cttttctttgg   720
gtacctctgg cttactgcct cttgtgatgc cactagtcag aatgccttgg aaaagagctg    780
tagttctcct aatgttatgg tttataggc aggccatgtg gctggctcct gcctatgttc    840
tagagtttca aggaaagaac accttttctgt ttatttggtt agctggtttg ttcttttcttc   900
ttatcaattg ttccatcctg attcaaatta tttcccatta caaagaagaa cccctgacag   960
agagaatcaa atatgactag tgtatgttcc acccctctg ctactgtgtt acattctgat   1020
tgtcttgtat ggaccagaag agagctttgg gacatttttt ctgaacattc taagcattct   1080
agtgaaagtt cccatgttcc aacagaactt aaaagcaatg tttgccttat atataaaagg   1140
gacacaataa ttgaggtcca ccttctagga aatcctagga ctcgtttatt tgggacatgg   1200
tgggaataaa ggtcacatat tggaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa   1260
aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaa                              1296
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<210> 30
<211> 1979
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (968)..(968)
<223> n equals a,t,g, or c

<400> 30
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tgcwgactcc cggcctgcgg aactcgtagt gcagccctg tcgcctcccc ggcccctgct    120
atcccacgca ggactggctt cggccgccgg ggccagcagc ttgcracgtg tccctgggga    180
ggcggaatcg ctgtgcgccc tgagcccggg ctcagcccctt cgctttccag ctgcgtcctg    240
ctcccggccg sccagggagc ccagtggcga tgagggcact gctggcgctt tgccttctcc    300
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gggtggacgt gcagggcaac taccacgagg gcttccagtg cccagaggac ttcgacacgc    420
tggacgctac catctgctgc ggctcctgcg cgctccgcta ctgttgcgcc gcggccgacg    480
ccaggctgga gcagggcggc tgcaccaacg accgccgcga actggagcac ccaggcatca    540
ctgcgcagcc tgtctacgtc ccctttctca tcgtcggctc catcttcatt gcgttcatca    600
tcctgggctc tgtagtggct atttattgtt gcacctgttt gagacccaag gagccctcgc    660
agcagccaat ccgcttctca ctccgcagct atcagacaga gaccctgccc atgatcctga    720
cctccaccag ccccagggca ccctcccggc agtccagcac agccacgagc tycagcttca    780
caggcggcty catccgcagg ttcttctcag ccatctggtt tcctggtgtc accccagtat    840
ttcgcttacc cccttcagca gragcccca ctggctggga agagctgtcc agactttcag    900
ttccagktga cacgcccagg ccatgaatyc acaactcagt cagatggcag acaggtggag    960
ccctgctncc attgccacat gcaattctga gaaaatttcc cttgtaactg atcagtgtcw   1020
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cagaaaggct aaaccagaga actgtttctg gttttgcaaa catgtgatca ttacatttca   1140
atctatgcta cttttattca aaatatgcag cagtttgact ttaaagttgc aaactggcta   1200
aaaacgtttt actggacatt cagctatatt gcttagaaaa gggctacatg tttctttttc   1260
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ctaattgtaa ttatcaaagg ttcacttaaa aaattaacta ttaggtaaac ttaagggggc   1380
agtgaaaaat ctatttatga tttcgggagt aacctaacca tgaataatat tagcatwatg   1440
agamcatttm cttttttaaat aaatamctaa atttkgttta caaymggagt tttyccagaa   1500
tacaaggtty caataatcac atgaggagtt taaagtttta aatatatact cagacattca   1560
ttgtaacaca gagtgtatgt aaaatcattt cccccactca ctggagggag tatttattgc   1620
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mcattgactg tactaattat ttagtagtca tactgtaatt tttatgttaa taataactgg   1800
agttcaaagt ctagctattg gtataatcat ctaatattat atatatctcc agtgcccctg   1860
aattttatgt ttgatgacta tatatttggg catatatctt gttggattag aataaataaa   1920
acactttata ttttcatgaa ctctaaaaaa aaaaaaaaaa aaaaaaaaa aaaaaaaaaa   1979
```

<210> 31
<211> 1274
<212> DNA
<213> Homo sapiens

<400> 31
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tacacttmca gcttttaaaa ttctccttta catgtgctca gtgttttgkt ttgtgttttg    120
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```
gtttctgtttt  tttattttaa  ttcccacatt  gggcacaaga  atcagaatat  ggatagctag     180
tttaagaaac  ttttgtgggt  gcactgtagc  atagatgaca  gaatttgatg  ttcccccccat     240
ctccaattca  gttcagggca  ttccacagtt  aaacagaaat  gggaacgtgg  ggctcttata     300
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graggctatg  tctgtatggt  cgattctcag  ttatcacatt  tgcctctcct  cccactacct     420
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actcagccac  attgctactt  ttatctgttc  tggtaagaag  ttagatagat  ggtagattga     540
agcaattggg  tagaattagt  tgggggaata  tttatgagtt  gctgtgtttg  ttgattagtt     600
ccatctcttt  cccatttttaa  ctgagaattg  attatatata  gctctaagta  tataggtatt     660
taaacaaccc  cacaagcggc  tgtatcagta  acatttatta  attccactat  agtgagggag     720
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acataaaagt  catactgtgt  gtgcacaaag  agtacatgga  ttttccagca  taytgcttta    1080
aaaaattata  taaactgtta  aaatattaac  acctcaggct  acctgctgta  ttctgtccca    1140
ttgaccccctg  gaattggatt  tactgcaagt  gattgataat  tcaattatgt  ggcttttccc    1200
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ataatagaaa  gagt                                                         1274
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<210> 32
<211> 1531
<212> DNA
<213> Homo sapiens

<400> 32
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aatggcagca  aactcttcag  gacaagcatt  gcactctcga  gaccctctct  taataaggac     180
ttccgggatc  acgctgagca  gcagcatatt  gcagcccaac  agaaggcagc  tttgcagcat     240
gctcatgcac  attcatctgg  atacttcatc  actcaagact  ctgcatttgg  gaaccttatt     300
cttcctgttt  tacctcgcct  tgacccagaa  tgaagaaaac  atttgcgatg  gaaaagtgac     360
tttgtaatat  caaatgccaa  agctactatc  attcagtgct  acatgaactg  tgactttaag     420
aattttggtg  aactttgata  ttttttgttt  gtctgaaaga  aaggaatgtg  taagtgaaag     480
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ttatgtaccg  tgactgtaac  ttttttgtaa  tgctgtttaa  ctctcaatca  gactgtgaac     600
tggatggtca  cgaagtcatt  ccccaactcc  tagcaagttt  gactgaatat  atcatgtcca     660
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aaaatgaact  aataggctta  aatcaattgc  atccatattt  gctgtttata  ggattgctat     780
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tagtatgtaa  agtcttagag  agcaagaatt  tttgtttatt  tctttctctt  cctcctttcc    1260
tttcttcctc  ttttacttcg  ttcactactg  tattccacat  aaaatatatt  tggcatatag    1320
taggtgttca  atatgttgaa  ggaatgaaag  aatttataga  cttgagttgc  aatataaaat    1380
gtatttttttt  ttactgtgag  ttatggcaaa  aaaagtttttg  aaagccgctt  ctaaataatg    1440
cagatgtcag  tgctttgacc  ctggaataaa  aactgaaatg  acttagtgat  ttcaaaaaaa    1500
aaaaaaaaaa  aaaaaaaaaa  aaaaaaaaaa  a                                     1531
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<210> 33
<211> 2090
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (967)..(967)
<223> n equals a,t,g, or c

<400> 33
```
atagggaaag  ctggtacgcc  tgcaggtacc  ggtccggaat  tcccgggtcg  acccacgcgt      60
```

```
ccgagctgat gcccataatt gtattgatcc tcgtgtcatt attaagccag ttgatggtct    120
ctaatcctcc ttattcctta tatcccagat ctggaactgg gcaaactatt aaaatgcaaa    180
cagaaaactt gggtgttgtt tattatgtca acaaggactt caaaaatgaa tataaaggaa    240
tgttattaca aaaggtagaa aagagtgtgg aggaagatta tgtgactaat attcgaaata    300
actgctggaa agaaagacaa caaaaaacag atatgcagta tgcagcaaaa gtataccgtg    360
atgatcgact ccgaagaagg cagatgcctt gagcatggac aactgtaaag aattagagcg    420
gcttaccagt ctttataaag gaggatgaac tggaattttt atttatacct tttagcgtac    480
tctttatttt ttctgtaagt aagtttggtt tcatcatgag ggatgaagga aaagatttga    540
tactgaaaac taaactgaat agttggttcc tgaaatcttg gactgtttat gacctactgg    600
ctcctttaaa tagtaactga aaactaaaat ggaatatttt agttaacgct tctacaagta    660
ttttcatttt aaaagcttac atgattccta actaaagtgt catgagaaag gattatcaca    720
cctgtagcaa tttccagttt tagtgattct ccattttttc ccttgtcatg taaatattta    780
tggaatgatc attttgtgta catacaggtt actgctttt tatttaaatt cttttagtgt    840
ttagctccat gagacacttc agtttaaatt gatggaataa atgttatatg acacatttac    900
attttcctta tcaaggtgtc aaatatgtgg actttaaaca atgaaacttt ttcaaaaaga    960
aaaamcnaaa actttaactt tgtgtaaaat cttatagtat tatcagctta gagggaattg   1020
atatttttaa tattgccgtt atattccaaa atatatattg agataaatga actggtgtag   1080
aatatcagtt tgctatttag ttttatgaat tactatacat atacatgcat agaaatgaaa   1140
tgctatactg ataaatttta aagaaaatat gaggaaatgg ctataaatat taaactaaaa   1200
gggtcttcaa cagtaaagtg cagttatgtc atttaaaatt ccaatacttt aaaggccacc   1260
aaattttgat gtatatgtcc ttgaagggct gctaaaattt atgaagagga ctcacatttt   1320
cccccataga aatttgcagt ttcttggtga tcatttaagc aggatccaaa gaagttcctt   1380
tacaaataag taataagaaa aatgagtact aaaatacagc tttgtgcctt ttaaccctat   1440
gccaactcct aaacatataa gtagattaca gtatacttat ctgatcagag catgayctgt   1500
ttggccacat gcaagtgtga gcagaaatag agcagcacgt agaatagtaa cttaaagcaa   1560
gtcatccttt aaaaattctg agctaaaatc tatttaccat tgagtaattg aattaatccc   1620
ataggaataa gctccttgta agtaaatcca tgatatgaat tagaaaaaaa aaacagctgg   1680
aaattgaagt ttttgatgcc tgtatactgg atatgaaact atttgatttc tagtcttctg   1740
tgtttagcag ttgtaatatt ttaatgattt tgcttcatac tcrgttaatg gaacataaac   1800
atatctttga tacttctttg tgagtgagag aatgctagat agggtggctt tgttctttgt   1860
ttaagttttt tttcctgaat gtagttaatt tatggcatct gttgaataaa actgctaaaa   1920
tgacctctta aaaatgttct gttgtatccc cttttccagg tgaatcaata gaaatgcctg   1980
attgaattag taggttaaac taaacaacat actgtcatag gaaaactgga gagcttaacc   2040
aacttgctct tagaaatgtt accttaaaaa aaaaaaaaaa gggcggccgc               2090
```

<210> 34
<211> 1006
<212> DNA
<213> Homo sapiens

<400> 34
```
gctcgtggcg ctggaccgca tggagtacgt gcgcaccttc cgcaagcgcg aggacctgcg     60
cggccgcctg ttttgggtgg cgctggacct gctggacctg ctggacatgc aggccagcct    120
gtggggagccg ccgcgctccg ggctgccgct gtgggccgag ggcctcacct tcttctactg    180
ctacatgctg ctgctggtgc tgccgtgcgt ggcgctcagc gaggtcagca tgcagggcga    240
gcacatagcg ccgcagaaga tgatgctgta cccggtgctc agcctcgcca ccgtcaatgt    300
ggtggccgtg ctggcgcgcg ccgccaacat ggcgctgttc cgggacagcc gtgtctcggc    360
catcttcgtc ggcaaaaacg tggtgcgcct cgccaccaag gcctgcacct tcctggagta    420
ccgccgccag gtgcgcgact tcccgccgcc tgcgctatca ctggagctgc agccgccacc    480
cccgcagcgc aactcggtgc cgccgccgcc gccgctgcac ggcccgcctg ggcgccccca    540
catgtcctcg cccacgcgtg accccctgga cacgtgacag ggcccgcgcg gcccccgaca    600
cgccctgggg gcgcagagac accgggttgg cttggggcgc gcggtttgca tgggatgggg    660
tgggggcggg ctcccctagg gacaggtgcc tcgagtgccc gtgcctgggg tcccgcggcc    720
gcttcttcat ctcaggaatc tctcggaccg cggatcctca gcccccgctc caccagcccg    780
ccccagsgcg tgggtctgtt tgggaggcct gggccggagc agagcagagg tgatccggcc    840
cctgcctgct gggccgcccg ggttggaagg gagggcagtg tgggcggaga tctgctcctt    900
cggtgggggc ctctggctca gatttggggc caaggaggcc tctgtcattt taaagactcg    960
tgtttacagt tttgtaaaaa aaaaaaaaaa aaaaaaaaaa ctcgag                   1006
```

<210> 35
<211> 1787
<212> DNA
<213> Homo sapiens

<400> 35
```
gcagtgttgc actttctac aattttggaa aatcttggaa atcagatcca gggattatta     60
```

```
aagsracaga agagcaaaag aaaaagacaa tagttgaact tgcagagaca ggaagtctgg    120
acctcagtat attctgcagt acctgtttga tacgaaaacc ggtgaggtcc aaacattgtg    180
gtgtgtgcaa ccgctgtata gcaaaatttg atcatcattg cccatgggtg ggtaactgtg    240
taggtgcagg caaccataga tattttatgg gctacctatt cttcttgctt tttatgatct    300
gctggatgat ttatggttgt atatcttact ggggactcca ctgtgagacc acttacacca    360
aggatggatt ttggacatac attactcaga ttgccacgtg ttcaccttgg atgttttgga    420
tgttcctgaa cagtgttttc cacttcatgt gggtggctgt attactcatg tgtcagatgt    480
accagatatc atgtttaggt attactacaa atgaaagaat gaatgccagg agatacaagc    540
actttaaagt cacaacaacg tctattgaaa gcccattcaa ccatggatgt gtaagaaata    600
ttatagactt ctttgaattt cgatgctgtg gcctctttcg tcctgttatc gtggactgga    660
ccaggcagta tacaatagaa tatgaccaaa tatcaggatc tgggtaccag ctggtgtagc    720
gacatcttat cctatgaagc atattgctga gtggtgcctg aaaattgtgt ctgtccgtgt    780
cttttctcaca ctcgaatcca catcctttga acaagagcat gctatgtgta gggctaawgg    840
tgaatttttac agtctttttt tcaacacttt tattamcaaa agtaaacatg dacagaacac    900
actgcccatt tctgggaaga gtaaagatga taaaaaataa ttttaatggt tcttaatgtg    960
gaaattcaca acatactcaa cttttgggtt ttgttctcac agtattttc acaaaaaaag   1020
ggtaaactta ttctattgac agacatggtg tactgatcag aaatgttcag ttttaactaa   1080
aactaaattt atgttatttg gctaaatgtt atgatgcagt ctagtacgag tattgcatct   1140
aattccagga gcattgtttt aagttgattg actagttatt atgtacattt cagaatgtac   1200
acataaatac tgtgatgaaa atcatgtgat tgggatctac tgtgatgttg tcttcaargg   1260
caggagaaaa taatgttcac aataaaatgt gctaacaatg tttttgtttct atcagctgtt   1320
gcaatgctga tatatttcta gttcagtgaa ataatttgta gtaaccttac tctgaggttt   1380
tacggtctga taatgaagca cttgcatgag tatagtaagt catgtttttt tgttcaaatt   1440
taaaagccct gctaattgca tgacacacca catagaatgt atactagcag atactatcca   1500
gtgaagcata aattagaatt taatttgatg ttcaaaaaca gttccatttt taagggttaa   1560
ggtggtattt tcaagaaaag gcagaacaaa taatgcaaaa ttctcagtaa tagtgataca   1620
tggatatact tccttttaaa ttctcagctg caaaataatt gtagrcaaaa twatggcatt   1680
taactaaaga tggagcatga tctgtgtaca tagcacatgt gaataaaaga aaagctgaca   1740
gtataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg cggccgc                  1787
```

```
<210> 36
<211> 1201
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (29)..(29)
<223> n equals a,t,g, or c


<220>
<221> misc_feature
<222> (48)..(48)
<223> n equals a,t,g, or c


<220>
<221> misc_feature
<222> (63)..(63)
<223> n equals a,t,g, or c


<220>
<221> misc_feature
<222> (1201)..(1201)
<223> n equals a,t,g, or c


<400> 36
taggcttttg caaaaagctt tttaggtgnc ctatagaagg tacgcctnca ggtaccggtc     60
cgnaattccc ggtcgacccc acgcgtccga aggaaactac ttgagraggg acccaacttt    120
ccgctatctt ttgggttcat tccaaatagt tttgtgccat tgaaaaactt gaccttcaaa    180
aaaatttgtt tttcagaata gaacacaata ggacagtgac tgcacagttg tgaaaaagga    240
agagaatcat taaagaaaaa gaaaaaagat tttaagaccg ttgaaatcaa ttatcaagaa    300
cgtcctaaaa cacctatggc tttgactttg ttattgatcc agattatttt ccttgcattg    360
gggaaaatat ctttcatatt tgtttgctgt aaagatggtt ttgcaagaat aagtcatgac    420
caagacaaac tgccaataca aaagcccact gatactaatt atataatgag aaaaaaatgt    480
atccaactag gacacatatc ttttgagtta tttggactga aagcttaaga aaacttggaa    540
aattctatttt tgtgatctag tcaagccaca gttatcaaag gctacatttt cagtgtaaga    600
```

```
taaatggatg agtaaactca aatatgtatc acgtgtgctt tgtatcttaa gatgtgtttc    660
caagagcatc tgaaatttg tttgtacatg tatcttgatc atttataaag ccactgtgat    720
ctataaatca agaaaatcca ttgtcataac catttttaaa agtcaaaaat taagacatcc    780
ttaattaaaa agtttcaaat ctagacacta aatgtgtgtg aatgtacaaa gaaaacaaac    840
cattgcttat gctgttatat actagagaaa ttttgttttg cttgctgttt taacttgaca    900
gatgaaggac tttagttgaa cttcatattg taagaactgt taataaaagt tgtcaagtaa    960
aaagcgctat atctaaaaag actttatgaa cagttattct atcaactttt aaaggtttta   1020
aacctgccca gaaattacct tggtatctga agtttccctc tgtctcctcc tctaattaag   1080
cttgttattt gtcatgcacc agcattggag ataataaaat ttcttgttct gtgtaaaaaa   1140
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   1200
n                                                                   1201
```

<210> 37
<211> 1896
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (444)..(444)
<223> n equals a,t,g, or c

<400> 37
```
ctgcaggaat tcggcacgag cggaaccggg gccggctgct gtgcatgctg gcgctgacct     60
tcatgttcat ggtgctggag gtggtggtga gccgggtgac ctcgtcgctg gcgatgctct    120
ccgactcctt ccacatgctg tcggacgtgc tggcgctggt ggtggcgctg gtggccgagc    180
gcttcgcccg gcggacccac gccacccaga agaacacgtt cggctggatc cgagccgagg    240
taatggggc tctggtgaac gccatcttcc tgactggcct ctgtttcgcc atcctgctgg    300
aggccatcga gcgcttcatc gagccgcacg agatgcagca gccgctggtg gtccttgggg    360
tcggcgtggc cgggctgctg gtcaacgtgc tggggctctg cctcttccac catcacagcg    420
gcttcagcca ggactccggc cacngccact cgcacggggg tcacggccac ggccacggcc    480
tccccaaggg gcctcgcgtt aagagcaccc gccccgggag cagcgacatc aacgtggccc    540
cgggcgagca gggtcccgac caggaggaga ccaacaccct ggtggccaat accagcaact    600
ccaacgggct gaaattggac cccgcagacc cagaaaaccc cagaagtggt gatacagtgg    660
aagtacaagt gaatggaaat cttgtcagag aacctgacca tatggaactg gaagaagata    720
gggctggaca acttaacatg cgtggagttt ttctgcatgt ccttggagat gccttgggtt    780
cagtgattgt agtagtaaat gccttagtct tttacttttc ttggaaaggt tgttctgaag    840
gggatttttg tgtgaatcca tgtttccctg acccctgcaa gccatttgta gaaataatta    900
atagtactca tgcatccagt tatgaggctg gtccttgctg ggtgctatat ttagatccaa    960
ctctttgtgt tgtaatggtt tgtatacttc tttacacaac ctayccatta cttaaggaat   1020
ctgctcttat tcttctacaa actgttccta aacaaattga tatcagaaat ttgataaaag   1080
aacttcgaaa tgttgaagga gttgaggaag ttcatgaatt acatgtttgg caacttgctg   1140
gaagcagaat cattgccact gctcacataa aatgtgaaga tccaacatca tacatggagg   1200
tggctaaamc cattaaagac gtttttcata atcacggaat tcacgctact accattcagc   1260
ctgaatttgc tagtgtaggc tctaaatcaa gtgtagttcc gtgtgaactt gcctgcagaa   1320
cccagtgtgc tttgaagcaa tgttgtggga cactaccaca agccccttct ggaaaggatg   1380
cagaaaagac cccagcagtt agcatttctt gtttagaact tagtaacaat ctagagaaga   1440
agcccaggag gactaaagct gaaaacatcc ctgctgttgt gatagagatt aaaaacatgc   1500
ccaaacaaac aacctgaatc atctttgtga gtcttgaaaa agatgtgata tttgactttt   1560
gctttaaact gcaagaggaa aaagactcca ctgaaattct aagtttgcca agtagtgtaa   1620
ttgaagtcct tgtctggtca cacagtttaa ttctattttt gtaagaacat aatgggactg   1680
cataacagag ttctatatta caattttgtg attattagta cagagtacag ctatgctgtg   1740
actgttttgg aaagccagtt ttaacactat gttacatttt tgtttaaagt aagttaaacc   1800
ttatataaca taatgacatt tgatttctgg attttttccca tgataaaaat taggggata   1860
aataaaattg ttactggaat ttctctgcaa aaaaaa                             1896
```

<210> 38
<211> 1152
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1145)..(1145)
<223> n equals a,t,g, or c

<400> 38
```
agttccagga taaaaacaga ccgtgtctca gtaactggcc agaggatacg gatgtcctct      60
acatcgtgtc tcagttcttt gtagaagagt ggcggaaatt tgttagaaag cctacaagat     120
gcagccctgt gtcatcagtt gggaacagtg ctcttttgtg tccccacggg ggcctcatgt     180
ttacatttgc ttccatgacc aaagaagatt ctaaacttat agctctcata tggcccagtg     240
agtggcaaat gatacaaaag ctctttgttg tggatcatgt aattaaaatc acgagaattg     300
aagtgggaga tgtaaaccct tcagaaacac agtatatttc tgagcccaaa ctctgtccag     360
aatgcagaga aggcttattg tgtcagcagc agagggacct gcgtgaatac actcaagcca     420
ccatctatgt ccataaagtt gtggataata aaaaggtgat gaaggattcg gctccggaac     480
tgaatgtgag tagttctgaa acagaggagg acaaggaaga agctaaacca gatggagaaa     540
aagatccaga tttttaatcaa agcmatggtg gaacaaagcg gcaaaagata tcccatcaaa     600
attatatagc ctatcaaaag caagttattc gccgaagtat gcgacataga aaagttcgtg     660
gtgagaaagc acttctcgtt tctgctaatc agacgttaaa agaattgaaa attcagatca     720
tgcatgcatt ttcagttgct ccttttgacc agaatttgtc aattgatgga aagattttaa     780
gtgatgactg tgccacccta ggcacccttg gcgtcattcc tgaatctgtc attttattga     840
aggctgatga accaattgca gattatgctg caatggatga tgtcatgcaa gtttgtatgc     900
cagaagaagg gtttaaaggt actggtcttc ttggacatta atctttgaat acttgctgac     960
tgctaagaaa tgaccagagg ggaagaggag tttgacatgt tagggcatta aagcaaaggt    1020
ggatttaaga attaaaccat tacatgcccc ttccaaaagg cagaaatcca ttcaaacgtg    1080
actgtcccaa atgccttatg tcaaataaag cagattgcac tgatggaaaa aaaaaaaaaa    1140
aaaanactcg ag                                                        1152
```

<210> 39
<211> 1017
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (822)..(822)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (994)..(994)
<223> n equals a,t,g, or c

<400> 39
```
gaacaaagtt cagtgactga gagggctgag cggaggctgc tgaagggggag aaaggagtga      60
ggagctgctg ggcagagagg gactgtccgg ctcccagatg ctgggcctcc tggggagcac     120
agccctcgtg ggatggatca caggtgctgc tgtggcggtc ctgctgctgc tgctgctgct     180
ggccacctgc ctttttccacg gacggcagga ctgtgacgtg gagaggaacc gtacagctgc     240
aggggggaaac cgagtccgcc gggcccagcc ttggcccttc cggcggcggg gccacctggg     300
aatctttcac catcaccgtc atcctggcca cgtatctcat gtgccgaatg tgggcctcca     360
ccaccaccac cacccccgcc acamccctca ccaccwccac caccaccacc acccccaccg     420
ccaccatccc cgccacgctc gctgargctg ctgtcgccgg tgcctgtgga cagcagctgc     480
ccctgccctc ccatctgttc ccaggacaag tggacccat gtttccatgt ggaaggatgc     540
atctctgggg tgaacgargg gaacaataga ctggggcttg ctccagctgg atttgcatgg     600
catgccccag tgtactatgg cagcagagaa tggaggaaca ctgggtctgc agtgctgaag     660
ggtttgggga gtggagagca agggtgctct ttcggggctg gacagcccgt cttgtgacag     720
tgactcccag tgagccccag aaatgacaag cgtgtcttgg cagagccagc acacaagtgg     780
atgtgaagtg cccgtcttga cctcctcatc aggctgctgc angcctctgg cgggcagggc     840
actgggagag gccctgagaa tgtccttttg gtttggagaa ggcagtgtga ggctgcacag     900
tcaattcatc ggtgccttag tccaagaaaa taaaaaccac taagaaaaaa aaaaaaaaaa     960
aatgacccctc gaggggggggc ccggtaccca attngcccta tgaagaggcg aacagga      1017
```

<210> 40
<211> 1777
<212> DNA
<213> Homo sapiens

<400> 40
```
ggcacgaggt ccccgacgcg ccccgcccaa cccctacgat gaagagggcg tccgctggag      60
ggagccggct gctggcatgg gtgctgtggc tgcaggcctg gcaggtggca gccccatgcc     120
caggtgcctg cgtatgctac aatgagccca aggtgacgac aagctgcccc cagcagggcc     180
tgcaggctgt gcccgtgggc atccctgctg ccagccagcg catcttcctg cacggcaacc     240
```

```
gcatctcgca tgtgccagct gccagcttcc gtgcctgccg caacctcacc atcctgtggc    300
tgcactcgaa tgtgctggcc cgaattgatg cggctgcctt cactggcctg gccctcctgg    360
agcagctgga cctcagcgat aatgcacagc tccggtctgt ggaccctgcc acattccacg    420
gcctgggccg cctacacacg ctgcacctgg accgctgcgg cctgcaggag ctgggcccgg    480
ggctgttccg cggcctggct gccctgcagt acctctacct gcaggacaac gcgctgcagg    540
cactgcctga tgacaccttc cgcgacctgg gcaacctcac acacctcttc ctgcacggca    600
accgcatctc cagcgtgccc gagcgcgcct tccgtgggct gcacagcctc gaccgtctcc    660
tactgcacca gaaccgcgtg gcccatgtgc acccgcatgc cttccgtgac cttggccgcc    720
tcatgacact ctatctgttt gccaacaatc tatcagcgct gcccactgag gccctggccc    780
ccctgcgtgc cctgcagtac ctgaggctca acgacaaccc ctgggtgtgt gactgccggg    840
cacgcccact ctgggcctgg ctgcagaagt tccgcggctc ctcctccgag gtgccctgca    900
gcctcccgca cgcctggct ggccgtgacc tcaaacgcct agctgccaat gacctgcagg    960
gctgcgctgt ggccaccggc ccttaccatc ccatctggac cggcagggcc accgatgagg    1020
agccgctggg gcttcccaag tgctgccagc cagatgccgc tgacaaggcc tcagtactgg    1080
agcctggaag accagcttcg gcaggcaatg cgctgaaggg acgcgtgccg cccggtgaca    1140
gcccgccggg caacggctct ggcccacggc acatcaatga ctcacccttt gggactctgc    1200
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tccccacttc gggccctcgc cggaggccag gctgttcacg caagaaccgc acccgcagcc    1320
actgccgtct gggccaggca ggcagcgggg gtggcgggac tggtgactca gaaggctcag    1380
gtgccctacc cagcctcacc tgcagcctca cccccctggg cctggactg gtgctgtgga    1440
cagtgcttgg gccctgctga cccccagcgg acacaagagc gtgctcagca gccaggtgtg    1500
tgtacatacg gggtctctct ccacgccgcc aagccagccg ggcggccgac ccgtggggca    1560
ggccaggcca ggtcctccct gatggacgcc tgccgcccgc cacccccatc tccacccat    1620
catgtttaca gggttcggcg gcagcgtttg ttccagaacg ccgcctccca cccagatcgc    1680
ggtatataga gatatgcatt ttattttact tgtgtaaaaa tatcggacga cgtggaataa    1740
agagctcttt tcttaaaaaa aaaaaaaaaa aactcga                              1777
```

<210> 41
<211> 1003
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (990)..(990)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1002)..(1002)
<223> n equals a,t,g, or c

<400> 41

```
aattcggcac gagttcctct cctcctgttt tgctacattc tcctcagtgg caaaaagttt     60
cactctacct ctgacagcat gtatattgca ccagtagcta acaaaaactg gtctagtcaa    120
accaaatggg cacaaaagaa ccaggatacc aaaagttaag ctcatacagc tgcaaaccat    180
atcacttctt ggtaacaatg cagacctcat aaacctaaag aagagaaaga aagaaaact    240
tttgttactt tccttttttg cttgtcactt atatacaggc tatgtgagaa tataatttgt    300
aggtataaca cattaagaaa aagttatctt cattggatag aattgaatgg tggtcgctga    360
taggaatagg gcgtcctcta gctcttatct ctgtctctta ctcttttctc tttctctttt    420
tctctgtcat gagactgtgt gtgacagggc cacctgtctt ttttttttc ttaaattttt    480
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atcatgcttt tgtcagcata ctcttgagct tttaagtcta ctatgtctga actgtggttt    840
cttgtttatc cttttttcct tagttggact gtaatgtatg gtctgtcaac ctgtgaatct    900
ttaaagtatg attcaggtat tgttgtattc tttactgtgt aataaaaag ttgaaaaaa     960
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<210> 42
<211> 1201
<212> DNA
<213> Homo sapiens

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<400> 42
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gaagattggc tatggcacct ctgcttcctg ctataggcct gaggttctag ggcttcttat       180
gcctcatcct ctttaagcca aagggatagc cagagcatct tgatggcaga agtgcaataa       240
gatgagcccc actgctcggg tacatttttca gccctggtt gtgtcatgtc tactgatatc       300
tcattggtca aaggaagtca gagggccaag atgaagaggc agggaaatat gcactgccca       360
cagtgaagcc atgacaagag tgaggatgca ggaaggcatg aagaattggg gccaacagtt       420
caatctacca taccttctct cacctggaat tccagatgct tgagctacga aacttagatg       480
caaagaaagt taaagctaga aggaacctca ggcccagttg ctcattttgc agattccaaa       540
tgtgaatttc agagagctga gataacttgc ccaaggccat atagaggctg tgactaaatc       600
tggacttaaa tccagactat caatcttagg ccagtgttct tttttcaata tagtccttgg       660
cataatgcta tgcttattag gtagataaaa gggcttatgt caagaaattt ggagcagagt       720
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ctgcccttct taaaaacaga aaacaaaaag tgtaagatca tcattgcttc ccacatagga      1140
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c                                                                      1201


<210> 43
<211> 1176
<212> DNA
<213> Homo sapiens

<400> 43
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ctctcctgcc aatagcaaca atgcaaaagc ttaccccttc tcccgtttcc ccagccccat       180
cttcatgtcc tgtggatgtt gcttcatcca catttataat ttactcctgt ctctctgcta       240
tggtttgggt gttgaaagag tgaagttctt tacctttagt atttttaaaaa aagaaacaat       300
gttgctcaat tatttattct aaatatgttg ttgggctttg ctttatttac cctgtttgca       360
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tgtcctggct tcaattcatg ttggcgttca ccttaaattt taaaaataaa gtttatgttt       840
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tgagtcgagg tcgcaccatt gcactccagc ctgggcaaca agagcaagat ccgtctcaaa      1140
aaaaaaaaaa aaaaaaaaaa ctcgagggggg ggcccg                               1176


<210> 44
<211> 569
<212> DNA
<213> Homo sapiens

<400> 44
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cgttcctgac aagtcaggtg ttcagattgc agtccctggc caacgtcagg attcttacag       180
gttgaatgtt aagctcaccg atcttggcct caggtcctgc ctggcttgcc tgctcatttt       240
cacacgtgca gtggtgggtc tgtctcatag cacaggtgca gtttagtgca gccacagtgt       300
ccccaggcag ggcgggggact ggagcagccc ccagtgtgcc agcagtgtgg gcagcggagg       360
ctagggggccc atctgtccct agcaccctcc agggcagtcc cgttttgcag cgggatttgg       420
caaacccccc tccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa       480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa       540
aaaaaaaaaa aaaaaaaaag ggggggccc                                         569
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<210> 45
<211> 986
<212> DNA
<213> Homo sapiens

<400> 45
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gaggcaccgg ccctggtacg gctgagcctg gggtcccatc gggtcaaggg cccactccca      120
gtgttgaagc tccagccgga gggctggagc ccatctactc tctggagctg cgcttccgtg      180
tggaaggaca gctgtatgca cccctggagg ctgtccatgt gccctgcctg tgtcctggcc      240
gccctgcccg ccctctgctc ctgcctctgc agccccgatg cccggccccc gcacggctgg      300
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tgttcgtgaa ctttgccgac ctctttctgc cttttcccgca gcctccagag ggggccgggc      420
tgggcttctt tgaggagctc tgggattcct gcctgccaga gggtgctgag agtcgtgtgt      480
ggtgtccact tgggccacag ggcctggagg gcttggtgtc ccgccacctg gagccttttg      540
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agccccggga gaccaggtgg gggcaggact gtggcccttg tgggggccaa ggcacactcc      780
tgtagctctg tcgccaaaac cctgcattcc gcagtgccct cgctggcttg ttttcttttg      840
ggccccggtt gggagcaggc tcctgggggt gagggtctgt ctgagtctgt ttttgctgct      900
ctagcaagat ccctgagacg gggtaagtta taataaacag aaatgtattg gctcagaaaa      960
aaaaaaaaaa aaaaaagggc ggccgc                                          986

<210> 46
<211> 1540
<212> DNA
<213> Homo sapiens

<400> 46
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ctctcatttt cttcctcgcc tggcttgtga agaacgtgtt tattgctgtt atcattgaaa      180
catttgcaga aatcagagta cagtttcaac aaatgtgggg atcgagaagc agcactacct      240
caacagccac cacccagatg tttcatgaag atgctgctgg aggttggcag ctggtagctg      300
tgggatgtca acaagcccca gggacgcgcc ccagcctgcc tccaggtgca gtacaatgac      360
attttaaaa atcgcccagc aaaggtcttt gaattttatt tcatccaaga aaatccacag      420
ctctttaagc tctagatttg tccaaatta aaatcctgaa gttagagatg gtatttcact      480
ccttcctcta ttcccaggac ctagcttttt tttttaaca tacacaatag ggatttgata      540
agtttctgat ggctgcaggc atgtaagagc atttcagtgg tattgaatca atgaagaatt      600
ttgttgacat gtgaaatctt ataaaaatat tctttaccga aggactgagt tatgtggcag      660
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cccaataaac tcctttatct cttcttcagg gggccatact gacatcttct cttccttggt     1020
ttcccctcct tgcccctaa atatccagta actcattcaa aataatgtca ccttaccaag     1080
agcagcaccc ctaactttcc ataatatttt cactttcatt ttccctccaa gcagcccact     1140
cgtaggaccg tagaattgat cttccacct ggagaatttt attttctta gcctttttgg     1200
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ctcataattt ggagaagtgt tcacatctgc cgtgggatga gactgtatct cttttcttc     1320
ttttgggtct ttctccagat agggacttct tatgcaactc aaggatgggt acatgaaaaa     1380
taaaattgta ctctgagcca ttactggtgg gctatgttta tatggccatt ttaccataga     1440
gttatttact tcttttttgtt tctatttgta ttgaggtgtg attaacaaat aaaattgtaa     1500
atacttaagg taaaaaaaaa aaaaaaaaaa aaaaaaaaaa                            1540

<210> 47
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (759)..(760)
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<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (774)..(774)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (779)..(779)
<223> n equals a,t,g, or c

<400> 47
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gctctgcagc tggttgtctg gtactgctgg cctttgcttt ctatttagca tgttccttct   180
cccacaaaac aaaatcacat tctcactatg ccctgttcat tcttcaggac tatcttctgg   240
gaaactttta ctacataccc ctctcccccct aatctgagtg tctgctttgc tcaggtagca   300
tgtgttcact ggataaaatcc ttgattcctg gcactgaggc agggtttctg ttcccaggaa   360
gcagaggcat actattctgt gaaggattga ctgagtttct cctaatacca agcagtatct   420
gagggaacag atgtctagct taaaatcctc cctagcactt gtcatagcag tgctacgtat   480
tgcctgtgaa ggaagtttaa taactgctga aaggttcgat tagctttatt tcatcaggat   540
ttgtttgact ttacaaattg atttgggtta ttycaacttt taggtctagt cttaagtata   600
actggtacat attccttcaa gcagccatta cacctctcat aaatttatta tacacctgca   660
tttttataac tattatgctt tttaattgtt ggccaccatt tttagtgctt ctgaattgtt   720
atggttctca agcagcagtt gtcaccttgg ttttgaatnn atgctgtgac ggangcttnc   780
aggggaattc cc                                                       792
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<210> 48
<211> 1497
<212> DNA
<213> Homo sapiens

<400> 48
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ttcatataat aaagatgaag tgagagaaca ttagaggaac caaggccatg tgatggtaca   180
cgtctgacgt tttttccttt cggttacatg tccgtatctc ctctttcccc ttttttcccct   240
ttgtcttcat ttggttcccc tccctatagg gagtttagga caagaagagg ctaaagtttc   300
actgatgagc ctttctgagg gttctccatt aaatccaagg acagaaaatg tacagtcctc   360
ttattagcat aacgaagcca tcagcattgc atcaagcggg tcctcgtacc ctttttccttg   420
taatggtgtt tggtgtaggg tcctgaggaa gagctgccag cccctacctg atggatcaaa   480
atcccccttgg caccaaagag tgactgatag tgttaaccat cacaggagac atgtatgtat   540
gtgtgtggaa ctctgacgtg tatttaaac tttgcaatag cccaaagtta atttgtttct   600
ttgccatttg ttttcgaatg ggtgtggcat tgcttataaa atgttgaatg taagttgcct   660
aggacggcgc ctggcatatg gtggaaactg aataaaggct gctaggtagt gtagactaga   720
tggactagaa aacagyacag atgcagatgc tttcagatgt tctctctgcc acagagagac   780
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tgkactgcaa gctacactca gtttgaaga tggtgggtta gcgttagagt ggtgttctgt   960
ggccagtgga ggaggaagct tgctcacttt aatgcagaat gtctaagcat cctgcgctaa  1020
ccattggcag gaaggttatt tcagtgagac gctggttcct tctcacccct gcacccttcc  1080
tggaatcacc actggttgca gaagcctata tagrgtggct catttggacg aagtattgtt  1140
aaggtggtta ttagaagact cgcaacttag aaaaggaagt aaacatgtta atactagctt  1200
tcataaatcc ccctctctaa aaaacacccc tttctaaaaa attcacatta ctaaggcatc  1260
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ttctcatgta gttaatgcag catgatgaaa gaaataaaag tctccttatt tttttacttt  1380
ctgtgttgct tcttaaatat actccttcaa gtcaggttag cttaccttgg gtgtttgtat  1440
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<210> 49
<211> 1340
<212> DNA
<213> Homo sapiens

<400> 49

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ccccctgtaa agatgcaggc tctttacaat gaagacacat cttctgatgt tccttctctc         180
ctgtatggcc agatgcacag gaatagtgcc caaaagacct cagcctgctt tccctttaag         240
gggaaggaga agaaaaaact cctttttatt tttactttct ttcagcattg aattttttgtt        300
gtgtgtatgg tgacttctgt ttttgggaaa cggaagaagc cagcagcatg ctgaattgtc         360
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ctcccgggca gtgtaaaaag tttgcaggtg cggacattct gtctgactgg tctcggcagt         480
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ttgtttcacc ttctttttgc ccatatttta ttgtgcttca gatagaaatt ttatttataa        1020
gataaaaagt agctctgagg ctgggcacgg tggctcatgc ctgtggtccc agcactttgg        1080
gaggccgagg tgggtggttc acgagctcag cagatcaaga ccatcctggc caatatggtg        1140
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cccagctact cgggaggctg aggcgggaga atcgattgga cccaggaggc ggaggttgca        1260
gtgagcctag atggcaccac tgcgctccag cctgggtgac agagggagac tgcctcaaaa        1320
aaaaaaaaaa aaaaaaaaaa                                                     1340

<210> 50
<211> 1539
<212> DNA
<213> Homo sapiens

<400> 50
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ttttagagta cgttctgcat tttattytg caggcaacac tttgctcacc agcaagaaca         120
cagcccragg aagggaccca ataacctttc aaaacscaaa ctgctkcctg cggtgagggc         180
ccagggtcct ccacgagag acaggcatc ttcctttccc accaggaagg agtcagcccg          240
gagcctctgc tatgtgcaag gcggtgtgca agcaccggct gcrgctyttt gctgtctctt         300
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ccaggcaggc agggcgggag ctagcctgaa ggcgcccggg ttctgctgca cgcgcatctcg        540
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gccactgcag gaaggatcca gcaggayrta gtggacctca ygrtagcgyg gatcyraggg        780
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catagctctc tccctagagt gagtcgaatg aggttcata                              1539

<210> 51
<211> 1423
<212> DNA
<213> Homo sapiens

<400> 51
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ttttaattct atccttttac atataaataa cttaataagt gtgctggaaa aacacagatg         180
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ctccccttta cccccaaaat actcacaaaa aaattttaag acaacaagta accatatata    360
ggtgtttgaa tgattttctc atttttatct aatttcattt cataagtccc gagtaattta    420
cctaccatag gctactatac tgataatata aatgaaaccg aacatttttt gctactaact    480
ctccccaatt taatgtgttt tcgaaataaa aatttaaatt tttttccttt taattaaaaa    540
gtcatctttg aagtccttat tggctgtaca ttttacatgt ttgctggtac tattattttg    600
tcagtcagtt aaagctggca tgtacagctc ttggctttaa tgaaaagcac attgacataa    660
tgttagtaaa ttccaaaccc cggcacagaa tgtgagttaa aattaagtct tgctgggtta    720
gtgtacaata aactatacct acagactttt ttttaataga aagaagacaa agctgctggt    780
ataggatttg tcctttgaag aaaaaatgag ggaaacaaac acaaaaaccc aatgcagtgt    840
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gacagtaatg ttaaatagta actgccaaat ttgttatttt cccatctctc ttaaaaaagt    960
ctttatgatt attttatata gttttgagaa ctttaaagcc acttttttt aaccttacat   1020
ttgcataaaa atgtttagct tttaagtaga gagcaaatta tgatcatata ttttgatatt   1080
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tgatgaatgg tattctgtaa ttataacgtg ccccacatta ttgtgtctta attgcccta    1260
gcctgaattt taatgatcaa tttgttattg ttgcagatgt gaatattgtg cataaactta   1320
ctaaatttat gtaaaattgt ataaaataga attagaagtc actaagttct ttctgtgtag   1380
aagtaataaa tttattgtaa cacaaaaaaa aaaaaaaaaa aaa                      1423
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<210> 52
<211> 1364
<212> DNA
<213> Homo sapiens

<400> 52
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gaaaaatctg aaacagagaa cagaaggcca agagccagct tctgcgttct caactttatt    120
caacattaga cttaccttat ttctttcagt gtgtagggac aagatgtact gctgtgtgtg    180
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtm tataccttcc tatccattgg caagttaacc    240
tccatctggt ttatttggcc atgctatgct ttcttcccat tcccctgctg tctattctaa    300
gcccccagac tcaagcctct agactcttgg atgaaacagt gagaagaaaa catttttctga   360
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ctacccccta ccttaactct aaatggttct ttagactata gtctgtctcc tctgacctga    540
aatcctcttt taggcaatag gccagagcct agaagcagcc aggtctggtg agaaatgggc    600
ccccatacca actgtggact tggaatatca gcagagtagt aggcacagtt gtaaaaaggg    660
gagatttcgg taggcacagg tgtaaaaagg ggagatttca gaagacgggc gaaacaactg    720
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aattaggata tgacatatat gaaaggttta tctaagaaga aagaaacaga gataatatat    900
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atattcagag actttagcat tggggggcaga tatcttggcc tggttatggg gtaggacacc   1020
cagattttca gacttacaat cagtggtcct ggtttcaaca tggaagtgag atagctgatg   1080
aaggatttca agtctggaaa tgggaaaggg aggggtagaa gttcctttc agaaataaag    1140
aggcattcat gaaggctttt gttgaatcct atgctactga taggaccagg aagagaggaa   1200
ctcggaggac aataggggag ggaagtcttg gaaaatctac cacttacact gtgtgtcccc   1260
atccccagca gcgtcctgcc actgtagcgc ctttttaaaa taaataaaat aaaataaagc   1320
accaaaaaaa aaaattaaaa aaaactggag ggggggcccg gtac                     1364
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<210> 53
<211> 2288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (940)..(940)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1279)..(1279)
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (1798)..(1798)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2280)..(2280)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2285)..(2285)
<223> n equals a,t,g, or c

<400> 53

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gcggggcgca tgcgctcccg gcacaggcwt cgattgtgag gaargccggc tagtctccga     120
gctcatcccg ccttgcgcat gcggagaagg taaaccagcg ccccgagttg aggcgcgggt     180
ttggtggcgc gtttcagcga agtcgcacgt gaaggatagc agtggcctga gaaagaccca     240
gtcatggcag cctccagcat cagttcacca tggggaaagc atgtgttcaa agccattctg     300
atggtcctag tggcccttat cctcctccac tcagcattgg cccagtcccg tcgagacttt     360
gcaccaccag gccaacagaa gagagaagcc ccagttgatg tcttgaccca gataggtcga     420
tctgtgcgag ggacactgga tgcctggatt gggccagaga ccatgcacct ggtgtcagag     480
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accttcagaa cattgatcct tgccgcagcc ccactagcca agagaaacag agaaagacca    1140
ttcccccctgc ctgtccttgc ggccctgtct tctgaggttc tctgtctggg gttggctctc    1200
ttaacccttt ctctgctccc agcctgccctc accagggaag gttggagggg cctccctctg    1260
gcttctgcat ctgcgccana aacatcactg ccgttggtct ctcatgactt aactggcttc    1320
cctctgctgc tgccttggct tcctcctaat gctcgtgctc tcctgtcctt ctgaagttgc    1380
tccttggcca aatctccagc tcccttcttg ttttcctcat cctcctaccc tgtactccca    1440
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gcaggggtaa ggggacctga ggataaaggg tggggaaaca gggtcccctg aggcctgtgg    1560
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tggggggtttc agagaccctg aaagaggagg gaggacccgc ctccttgtct gcacaactgc    1860
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ccaccccggc agcccgggag gaacacaggc agctcctttc ccttcacgtg gtctgcagag    1980
agcagggtga gctgccagct gcccctctcc accagggtac cctgtcttgg tggttagggg    2040
ccacttttcc tttgaggctc tagtggaggt ggatgtcctt ctctgccagg cttggcacat    2100
gatgtgaaga ataaatgccc aattcttact gttcaggttt gatgtggaat cacagctgca    2160
gtgatatata tttttttatca gtgcttggtt ggtttttaaat aaagtgcacg ctattttatt    2220
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agggncca                                                            2288
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<210> 54
<211> 1512
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)..(2)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (8)..(8)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (16)..(16)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (21)..(21)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (29)..(29)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (528)..(528)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (600)..(600)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1496)..(1496)
<223> n equals a,t,g, or c

<400> 54
cngaaaancc ccgtgncatt ntgggaaana acgccccgca ggtaccggtc cggaattccc     60
gggtcgaccc acgcgtccgc ccacgcgtcc gctcgctggt ctttgtcctc ttctgtgatg    120
aagtgagaca gtggtacgta aatggggtga attattttac tgacctgtgg aatgtgatgg    180
acacgctggg gctttttttac ttcatagcag gaattgtatt tcggctccac tcttctaata   240
aaagctcttt gtattctgga cgagtcattt tctgtctgga ctacattatt ttcactctaa    300
gattgatcca cattttttact gtaagcagaa acttaggacc caagattata atgctgcaga   360
ggatgctgat cgatgtgtyc tycttcctgt tcctctttgc ggtgtggatg gtggcctttg    420
gcgtkgccar gcaagggatc cttaggcaga atgagcagcg ctggaggtgg atattccgtt    480
cggtcatcta cgagccctam ctggccatgt tcggccaggt gcccagtnac gtggatggta    540
ccacgtatga ctttgcccac tgcaccttca ctgggaatga gtccaagcca ctgtgtgtgn    600
agctggatga gcacaacctg ccccggttcc ccgagtggat caccatcccc ctggtgtgca    660
tctacatgtt atccaccaac atcctgctgg tcaacctgct ggtcgccatg tttggctaca    720
cggtgggcac cgtccaggag aacaatgacc aggtctggaa gttccagagg tacttcctgg    780
tgcaggagta ctgcagccgc ctcaatatcc ccttcccctt catcgtcttc gcttacttct    840
acatggtggt gaagaagtgc ttcaagtgtt gctgcaagga graaaacmtg gagtcttctg    900
tctgctgttc aaaaatgrag acaatgagac tctggcatgg gagggtgtca tgaaggaaac    960
taccttgtca agatcaacac aaagccaacg acacctcaga ggaaatgagg catcgattta   1020
gacaactgga tacaaagctt aatgatctca agggtcttct gaaagagatt gctaataaaa   1080
tcaaataaaa ctgtatgaac tctaatggag aaaaatctaa ttatagcaag atcatattaa   1140
ggaatgctga tgaacaattt tsctatcgac tactaaatga gagattttca gacccctggg   1200
tacatggtgg atgattttaa atcaccctag tgtgctgaga ccttgagaat aaagtgtgtg   1260
attggtttca tacttgaaga cggatataaa ggaagaatat ttcctttatg tgtttctcca   1320
gaatggtgcc tgtttctctc tgtgtctcaa tgcctgggac tggaggttga tagtttaagt   1380
gtgttcttac cgcctccttt ttcctttaat cttatttttg atgaacacat atataggaga   1440
acatctatcc tatgaataag aacctggtca tgctttaaaa aaaaaaaaaa aaaaanaaaa   1500
aagggcggcc gc                                                       1512

<210> 55
<211> 1357
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<212> DNA
<213> Homo sapiens

<400> 55
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tttgtgcaat aggttccaat atgcatttat tagacatctg tttaaatggt aatgtagcat     180
ttattttgct aaattgaaag ggaacataga tggaattcca aaatatgtac attcagctgt     240
ttggtttttc gtttttcatt gttattattg tgagaatgct gttattgggg ttgtgtgtga     300
gtgcccgtca gccagtgatg cctcgggcca cgctgtgggg ccacctcagt cctgcctggg     360
tcctggtgcc ttggacccca cgtgcttgtg gccaggctgc ccctgggcgg ggccatgtgg     420
cctcagacca caagagcgga ctgccctggc ccaagcactg cagctgcctg cacccccggg     480
cttcgcagcc ttgcttgttt tctctgaaca gcaacagaac agtgttcaca gcgattcaaa     540
gggtggcatt gggttggacg ttctgggtac aagccaacct agtcccacgt tgtacgtgaa     600
tgtttaatgt gctctcaaaa catggaaaat aagtttagtg cacatagcta aatcacaaaa     660
catccaattt ctctgtttcc tcaggaagtc attactgcgc caccacatca catgacctta     720
acatgatcaa tgtatttctc tgccttgaca tttaaataca taaattgaga taagtagatt     780
agaaaatcat tcaaatgata ccataatttg tacgggacag ggtgcgggca atggccacgt     840
ggccaaggcc ccgcaggaac gcgccgaggt ctccctcacc ctccaggtgt ccttcgcacc     900
caacagtgcg tctgaggaac gagctgcagt ttgagcgttc ccctgagatg tgcgtagcct     960
ccgtgtaaat gtccactccc atggcttaat tgcctatcag acgcattttc ccagacgaaa    1020
gcaatgttgg gttggggaag acagtgcagc cacccagcct ttaccagcag cgtacggcag    1080
acgaaggcag tcgaggtgtg gaggtgatca cgaagataca tgtgtttgac tgtttaattt    1140
gaaagtttac attttttatg ctttgtgttg gtgtgtaatt tttgtactct tggtggctag    1200
tttttgtcaa atcttttttg gaatattgct taaatgtttt gattttatga tagtgaagct    1260
tgtattcagt gttttgccaa ttaatattat atgcttgtaa taaaagcaaa agaaaagctt    1320
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa                             1357
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<210> 56
<211> 1989
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (31)..(31)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (161)..(162)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1702)..(1702)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1943)..(1943)
<223> n equals a,t,g, or c

<400> 56
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tttaacaaca tggggcatac attttggcca aatttgaaaa nntcttaaca tacaccccaa     180
aatccctgcc ccaaatttaa gaactagggt ggacacagtg cgttttttcca tgtcgcatct     240
tctgtgatgg ggctacgata cgtgggagca gagaatgggg aggttggagc gcatgccaga     300
tgaggatcta tcagcaatgg gacgggkcct ccactttagc atctcyaccc tgctcctytc     360
agaggaccgc ctttcattgc attcagctgt gatggtagca cgaacacagg tgcaccgagg     420
acgaggagag caggagcctt gtgctctctc tgcatctgag gcaggacagc acagggtayg     480
gagcagtctg cagagaggcc agctcatcag ggaagcactt gtcttccacc ttgggctttg     540
actgagcact gggcaattgg mcyctgggga tcaaygaaat aatcctaarc agagttactc     600
tatgtcacac tatggaatgt tccaagtasr tggccgtgtt ttcaaaagat rtattttctc     660
cttttgttgt tgccatttca taggtttagg attgggtgtg tgtktctcct ctctgaatgg     720
```

```
cactcraatg tttgctgact cctactctgt gtgactgggg tgtacagcta tggactgatg    780
catcccatcc catcatcttt catgatcaaa gcagtctctt ctttttgac agctgaagaa    840
gcatcggtag ggaatccaga aggagcgttc atgaaggtgt tacaagcccg gaagaactam    900
acaagcactg agctgattgt tgagccagag gagccctcag acagcagtgg catcaacttg    960
tcaggctttg ggagtgagca gctagacacc aatgacgaga gtgatkttat cagtacacta   1020
agttacatct tgccwtattt ctcagcrgta aacctagatg tgraatcamt gttactaccg   1080
ttcattaaac tgccaaccmc aggaaacagc ctggcaaaga ttcaaactgt aggccaaaac   1140
crgcararag tgaakagagt cctcatgggc ccaaggagca tccagaaaag gcacttcaaa   1200
gaggtrggaa ggcagagcat caggagggaa cagggtgccc aggcatctgt ggagaacgct   1260
gccgaagaaa aaaggctcgg gagtccagcc ccaagggags tggaacagcc ycacacacag   1320
caggggcctg agaagttagc gggaaacgcc rtctacacca agccttcstt cacccaagag   1380
cataaggcag cagtctctgt gctgamaccc ttctccaagg gcgcgccttc tacctccagc   1440
cctgcaaaag ccctaccaca ggtgagagac agatggaaag acwwmacmca crctatttcc   1500
attttagaaa gtgcaaaggc tagagttaca aatatgaagg cttctaaacc aatttcacat   1560
tccagaaaaa aataccgctt tcacaaaact cgctcccgca tgacccacag aacacccaag   1620
gtcaaaaaga gtccaaagtt cagaaagaaa agttatctga gtagactgat gctcgcaaac   1680
aggcctccgt tctctgcagc gnagagcctc ataaattccc cttcacaagg ggctttttca   1740
tccttaggag acctgagtcc tcaagaaaac ccttttytgg ragtatctgc tccttcagaa   1800
cattttatg aaaccactaa tataaaagac acaactgcaa gaaatgcctt ggaagaaaat   1860
gtttttatgg aaaacactaa catgccagaa gtcaccatct ctgaaaacac aaaactacaat  1920
catcctcctg aggcagattc cgntgggact gcattcaact tagggccaac tgttaaacaa   1980
actgagaca                                                           1989


<210> 57
<211> 2543
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> (2538)..(2538)
<223> n equals a,t,g, or c


<400> 57
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tctccctccc ttgcctcaga tttattgcta aacatgggtg cattttggga taaacccaaa    120
actgaaaaac ataatgctca tggtgctggg aatggtttac gttatggcct gagcagcatg    180
caaggatgga gagtggaaat ggaagatgca cacacagtgg ttgtaggtat tcctcacggc    240
ttggaagact ggtcattttt tgcagtttat gatggtcatg ctggatcccg agtggcaaat    300
tactgctcaa cacatttatt agaacacatc actactaacg aagactttag ggcagctgga    360
aaatcaggat ctgctcttga gctttcagtg gaaaatgtta agaatggtat cagaactgga    420
tttttgaaaa ttgatgaata catgcgtaac ttttcagacc tcagaaacgg gatggacagg    480
agtggttcaa ctgcagtggg agttatgatt tcacctaagc atatctactt tatcaactgt    540
ggtgattcac gtgctgttct gtataggaat ggacaagtct gcttttctac ccaggatcac    600
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caacgtgtta atggttcatt agcagtatct cgtgctctgg gggactatga ttacaagtgt    720
gttgatggca agggcccaac agaacaactt gtttctccag agcctgaggt ttatgraatt    780
ttaagagcag aagaggatga atttatcatc ttggcttgtg atgggatctg ggatgttatg    840
agtaatgagg agctctgtga atatgttaaa tctaggcttg aggtatctga tgacctggaa    900
aatgtgtgca attgggtagt ggacacttgt ttacacaagg gaagtcgaga taacatgagt    960
attgtactag tttgcttttc aaatgctccc aaggtctcag atgaagcggt gaaaaaagat   1020
tcagagttgg ataagcactt ggaatcacgg gttgaagaga ttatggagaa gtctggcgag   1080
gaaggaatgc ctgatcttgc ccatgtcatg cgcatcttgt ctgcagaaaa tatcccaaat   1140
ttgcctcctg ggggaggtct tgctggcaas cgtaatgtta ttgaagctgt ttatagtaga   1200
ctgaatccac atagagaaag tgatggggggt gctggagatc tagaagaccc atggtagcct   1260
taaaaacctt ctaaaatgct tttrattctg aaaattgggg gaaaaaactt ttaatcacaa   1320
ttttcttcaa tacaaggggga aaatattctt gcggattccc aacgttttgt gatatgagca   1380
gaaaatcatt agcatttccc atcatttgtt catatttgtg ttttctgaca gttgccactt   1440
gtagcattgc ctgtactaca gtattttttg ccaacctcag gcatactcgt tacatctgta   1500
ttgaactttc ggccctagaa accagtggag ttatttcacc acaaatcaac aatgtgcctg   1560
aggtgcatgg gaaatatagt tagctatact ctgaaaatac attatgtttt ttttcttttaa   1620
acaaaacaca caacatgtaa gcatgtaaga gtaaagaatt gtatgatatg ttccttttttt   1680
cagttcacca agttggaagc cttttgcagc tctgtggctt ggaatttcat ttgagcaatt   1740
tctataggat atgtatttat tattgattgt tatttaawww wwttccamtt ttacctgtat   1800
taccaaactg ggttctccaa taatgtccaa attgtaatgt tgccttgctt caagataaag   1860
tgtatttggg aataatatta taaacccttm caaattttat gcatgtatct actgcatcct   1920
```

```
tcaactctca ctagaaaatc ttttgaaacc aaatggatta atttatggct atttataatt    1980
tgctttgaca tctcactgtt ggaaattttt taaagatgag atttgccttt ataatgtaaa    2040
ttgtgatttt tgttttacat gtgggtttct atagtttaa tttttttcagc ttttaagata    2100
cgagttttgt gtaatttggt attttttaatc atttatgtta ttttaaaagc tcagaatatc    2160
acattgaaat tactataaat acatttaaaa ttatctattt tagatctaag gaaatactac    2220
agagatattt tcatgggttc agtaactttt cattttataa cattgggcac ggtacagagt    2280
gattgtcaca taaggtactt gaagatttat tagtttaatt ctatttttac agtaaccttg    2340
aattcttctg agtttttgcat gtattaaatt caattaatgc tgaacatgaa gagtaaagta    2400
tttatctgaa agaagtttct gggttaggag aagtaatgaa tgtatccatt tgtacatggt    2460
ttacatgttg tggatgcttt gtaaacattt tcctgtatgt ttaaattgtg tttcagcagg    2520
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<210> 58
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (766)..(766)
<223> n equals a,t,g, or c

<400> 58

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ggcagagcgt taagtcctca ttccctcctt ctcctcttcc tttctctgca gtaggggagg      60
cccactcccg ksggatctat cttgggatcc catggctttc tttactgggc tctggggccc     120
cttcacctgt gtaagcagag tgctgagcca tcactgtttc agcaccactg ggagtctgag     180
tgcgattcag aagatgacgc gggtacgagt ggtggacaac agtgccctgg ggaacagccc     240
ataccatcgg gctcctcgct gcatccatgt ctataagaag aatggagtgg gcaaggtggg     300
cgaccagata ctactggcca tcaagggaca gaagaaaaag gcgctcattg tggggcactg     360
catgcctggc ccccgaatga cccccagatt ygactccaac aacgtggtcc tcattgagga     420
caacgggaac cctgtgggga cacgaattaa gacacccatc cccaccagcc tgcgcaagcg     480
ggaaggcgag tattccaagg tgctggccat tgctcagaac tttgtgtgag ttgagcccag     540
gcctctggtt gcaggactcg tgaatggagc agttctgaga accacccttt tgctaaggga     600
gcttgggagc cacatggctg ctcccttcac actgggtaac agtgtagtat cctgtgagag     660
aataaatgta ttcatttatg tgtttttcca gagctttctg ggatgtggga aaataaatta     720
cactgaagca gttgaaaggt gaaaaaaaaa aaaaaaaaa aaaaanaaaa actcgag         777
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<210> 59
<211> 879
<212> DNA
<213> Homo sapiens

<400> 59

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gctgcatgct gggcgggaac taggaagcct ccccaacctc tggccccgtg gagccctcag      60
cctcagctgc agtggaggca cctcgggctc tggggcaacc aagtgtgaca ggtggctgtg     120
cacgggcaga ggtcctgtgg aagatttcat gtgacgggca gaagaggagg aggaggcagg     180
ggaggaagca catccatgaa cagggctgtc tggggccagc ctgggtggtc gtgaaatagg     240
actcagtggc cttgagtcct catttaggcc ctgatgttct ttagcctgcc tggcctttgg     300
caaatcgcca gcttcacgca caacctcatt tttcaccttt gggtgtgggg gtcagagtcg     360
ggagagcacc tgcaaagcca caatgatcca gacacacggc aaggtgggca cattcccatc     420
aggctcctcg gggagagcag cgcttctgtg cccgggagca gcgaaggtca cacaggagga     480
cccgcacctc ctcgtgtcgg tggctccgct ggtataatca ggactcacgt ggtgttcctc     540
gtgtcgtggc ccttattgca gagggagcag cacaggcttt cctggaagct cccctcggtc     600
atgtggggtg actccagaga rccccacctt gcgagactgg accagtccaa gtggcctkga     660
gccacarcgg cctkgcagta cctkgggagg gggtgatgac aggtgcacac ggaggcccat     720
gtggtctgtc tggagaatgc cggagatgtg aaatatgtaa tcctgagtgt ggcttctaga     780
aggaaggttc gcaaagctga atatccactc gtgctgttcc cttctcacag gagattcctg     840
tcaacgtccg attctgcctc gaaggcagga ggagtaagg                            879
```

<210> 60
<211> 1161
<212> DNA
<213> Homo sapiens

<400> 60

```
ggcacgagtc gtccagcccg cggcgagagc gggtatgtgg gcgggaggcc ggagcagctg      60
```

```
tcaggctgaa gtcctgcgag cgacgcgcgg cggggcggcg agaggaaacg cggcgccggg    120
ccgggccctg gagatggtcc ccggcgccgc gggctggtgt tgtctcgtgc tctggctccc    180
cgcgtgcgtc gcggcccacg gcttccgtat ccatgattat ttgtactttc aagtgctgag    240
tcctggggac attcgataca tcttcacagc cacacctgcc aaggactttg gtggtatctt    300
tcacacaagg tatgagcaga ttcaccttgt ccccgctgaa cctccagagg cctgcgggga    360
actcagcaac ggtttcttca tccaggacca gattgctctg gtggagaggg ggggctgctc    420
cttcctctcc aagactcggg tggtccagga gcacggcggg cgggcggtga tcatctctga    480
caacgcattg acaatgacag cttctacgtg gagatgatcc aggacagtac ccagcgcaca    540
gctgacatcc ccgccctctt cctgctcggc cgagacggct acatgatccg ccgctctctg    600
gaacagcatg ggctgccatg ggccatcatt tccatcccag tcaatgtcac cagcatcccc    660
accttttgagc tgctgcaacc gccctggacc ttctggtaga agagtttgtc ccacattcca    720
gccataagtg actctgagct gggaagggga aacccaggaa ttttgctact tggaatttgg    780
agatagcatc tggggacaag tggagccagg tagaggaaaa gggtttgggc gttgctaggc    840
tgaaagggaa gccacaccac tggccttccc ttccccaggg cccccaaggg tgtctcatgc    900
tacaagaaga ggcaagagac aggccccagg gcttctggct agaacccgaa acaaaaggag    960
ctgaaggcag gtggcctgag agccatctgt gacctgtcac actcacctgg ctccagcctc   1020
ccctacccag ggtctctgca cagtgacctt cacagcagtt gttggagtgg tttaaagagc   1080
tggtgtttgg ggactcaata aaccctcact gacttttttag caataaagct tctcatcagg   1140
gttaaaaaaa aaaaaaaaaa a                                              1161
```

<210> 61
<211> 687
<212> DNA
<213> Homo sapiens

<400> 61
```
ccgggtcgac ccacgcgtcc gactagttct agatcgcgac ggccgccctt tttttttttt     60
tttactgcca ggtagcaggc tttattggga aggacaaag cctcaggagc tgggtgcccc    120
agaggctgct gggtcttgag ccacagctgc agccaatgca gcagtcgcgc ctccttcttc    180
cgtttctgtt tttcctcctt gagggttgcg ctccttcttc tctaggtcct ggagcagctc    240
ctggaagcgg gcactccttg ggtccacctg gtagcccagg agctcctggg cctcagcctg    300
cagtcgggcc ctcctctcct tgtcagcctg ggccttctcc cagttctccc gctgctgctg    360
ctgccagttc acaatcatct gtggcatctt ggccatgcac tctgcgatgt gctgctccct    420
ctccgacgc ttctgctctt cggccagctg cttcacccgc agcgactcct gcatggtcgc    480
caggctcggg taccattcgc gttcttcggc ctccagctcc cgcagctgct ccggcgacgg    540
ccataacgaa ccggggacca ccccggaggc ggcgccgtaa cgcgcgaact gcttagcgcg    600
tagcgcggtc ccagctgcca ccgcggggtc aggaggtcct cggggtctgg ccaccggggt    660
cccggtgcgg cgcgggggcg gccgctc                                        687
```

<210> 62
<211> 518
<212> DNA
<213> Homo sapiens

<400> 62
```
acgcgtccga gatacattcc atgaatacct agtttattga gagttttttag catgaaggac     60
tgtcgaattt tgtcaaaggc tttttctgca tctattgaga taatcatgtg gttttttgtct    120
ttggttctgt ttatgtgatg gactatgttt attgatttgc atatgttgaa ccagccttgc    180
atctcaggga tgaagccaac tcgatcgttg tggataagct ttttgatgtg ctgctggatt    240
tggtttgcca atatttttatt gaggattttt gcatcagtgt tcttcaggga tattggtcta    300
aaattctctt tttttttgttg tgtctctgcc aggctttggt atcaggatga tgctggcctc    360
ataaatgagt tagggaggat tccctctttc tattgatcag aatagtttca gaaggaatgg    420
taccagctct tctttgtacc tctggtagaa tttgggtgtg aatctatctt gtcctggaat    480
attttttgggg ttggaactca aaaaaaaaaa aaaaaaaa                           518
```

<210> 63
<211> 911
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (911)..(911)
<223> n equals a,t,g, or c

<400> 63

```
gtctgaccag gggtactaaa taaaccggcc ctaacacttc catctccacc cacccatct      60
ccctggcgat gtgctccagc ccaagcagcc tccgtaggct ttagatcctg tggttgccag     120
atccagtcct ttctaatacc ctgagtcaac acattactcc tgcaggtctt aggctacaat     180
gcaggtccct tgagggccac caacatggag gtaggcagtt ctaggactg tccccagtac      240
atctcaccac ccacagccct ttttttgcct tgattcgagc ctcaccctgg cctttggct      300
tcccctgcct gagagagacc tgaggagggg acagagccca gccctctcc tgtggctgag      360
caggcctctg tgtccatgac acctgtcttc cgggcctggg ggctgtgggt gtatgtcctc     420
cctactggct tcccggccc ctgctgcatg atgctcttgg aactcttccc caaggagtca      480
gtcccccagg cctatcaggg gatccttttg tatctgcact ttgggtttta gtttcaaagc     540
tccatcaggt acagcttgca tttcaggatg tgtggaaagc tcgggtgagg gctgccctgg     600
ttcatcatag ctccaccttc ctcggaagga gtgggctgtt ggagacccc catccatggc      660
acactagctc agcactgcat ttcccgagat gattcccaag acagctggtg cctcctggct     720
ttcctgtgcc aggccaaggg gcaccacaga ggaccctgga tcctttgcct cttcttggtt     780
gaaggatctc tatgtatgtg tgtatataaa tatagttttt tatctatata tataaaaaaa     840
aaaaaaaaaa aaaaaaaact cgagggggggg cccggtaccc aattcgccat atggtgatgg     900
caaatgggaa n                                                          911
```

<210> 64
<211> 963
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)..(2)
<223> n equals a,t,g, or c

<400> 64

```
tncagaggcc ctgcggagtt gttcagaacc ccaactctct ctggctggct accccctgaa      60
ctactgggtc tctggaccca ttgtgcccag ccacccccaa aagccctcag gcgagagctg     120
cctgaggagg caccgctgag gaggaaagga gaaagattga agttccaagt gagattgaga     180
gatctcccta gaggcagctg aagaggagaa gtcccgcatc agcctcatcc caccagaaga     240
acggtggtaa gcggccaggc tccgtggrag ccagggccca magcccttgg ccagktkgtg     300
gaaacagctg ctgggatggg tatgccccctt gtcactgtca cagctgccac cttccctact     360
ctctcatgtc ctcctagggc ctggcctgag gtggaggcgc cagaagctcc tgcattgccc     420
gtggtgcctg aactccctga ggtgcccatg gagatgcctt tggtgctgcc cccagagctc     480
gagctgctct cactggaagc agtgcacagg taccaggrag gtggcacctt gatggggtgg     540
acccgggctg aagcctctgc taatggttct tgatccctat agggcagtgg cactggagyt     600
gcaggctaac agggagcccg acttcagcag cctggtgtca mctctcagcc cccgcaggat     660
ggctgcccgg gtcttctamc tgctcctggg tgartgtatg catgtgtgtg tgtgtatgtk     720
gggcagggac acagagacca gaggcccgta cagggactcc cccgacctgc cctctcctcg     780
cctcttgacc agtgctctca gcgcaacaga ttcttcacgt gaaacaagaa aagccatatg     840
gtcgcctcct gatccagccg gggcccagat tccactgagg ttagagtcca tttacaaagc     900
tgccaggaaa ccggccactt ctagtaaacc acgtcgtgcc tcactgaaaa aaaaaaaaaa     960
agg                                                                   963
```

<210> 65
<211> 1001
<212> DNA
<213> Homo sapiens

<400> 65

```
ccctactctc atctgctcca gcccctgac cttatagttg cccagctttc ctggcaattg       60
actttgccca tcaatacaca ggatttagca tccagggaag atgtcggagc ctcagatgtt     120
aattttctaa ttgagaatgt tggcgctgtc cgaacctgga gacagagtat cagcgccttt     180
gcttgctgct gtttttgctg tttttttgatg ctgggaacca ccacctaaag atagtaaaga     240
aaacacagga agctttccgg aaaacaaaaa gtcctttctc ctgattcacc aaaaaataaa     300
atactgacta ccatcactgt gatgagattc ctatagtctc aggractgaa gtctttaaac     360
aaccagggac cctctgcccc tagaataagr acatactaga agtcccttct gctaggacaa     420
cgaggatcat gggagaccac ctggaccttc tcctaggagt ggtgctcatg gccggtcctg     480
tgtttggaat tccttcctgc tcctttgatg gccgaatagc ctttatcgt ttctgcaacc      540
tcacccaggt cccccaggtc ctcaacacca ctgagaggct cctgctgagc ttcaactata     600
tcaggacagt cactgcttca tccttcccct ttctggaaca gctgcagctg ctggagctcg     660
ggagccagta taccccttg actattgaca aggaggcctt cagaaacctg cccaacctta     720
gaatcttgga cctgggaagt agtaagatat acttcttgca tccagatgct tttcagggac     780
tgttccatct gtttgaactt agactgtatt tctgtggtct ctctgatgct gtattgaaag     840
```

```
atggttattt cagaaattta aaggctttaa ctcgcttgga tctatccaaa aatcagattc      900
gtagccttta ccttcatcct tcatttggga agttgaattc cttaaagtcc atagattttt      960
cctccaacca aatattcctt gtatgtgaac atgagctcga g                         1001
```

<210> 66
<211> 1558
<212> DNA
<213> Homo sapiens

<400> 66
```
gcacatgcgg ccttgcagct ctccttacgc acatgcgggc cttgtagctc tccttaccca       60
catgcgggcc ttgccgctct ccttacccac atgtgggcct tgcagctctc cttacccaca      120
tgcggccttg cagctctcct acccacatg cggccttgca gctctcctta cccacatgcg       180
ggccttgccg ctctccttac ccacatgggg ccttgccgct ctccttaccc acatgggggt      240
cttgcagctg tccttacgca catgcgggc ttgcagctct ccttacccac atgggccttt      300
gcagctctcc ttacccacat gcggccttgc agctctcctt acccacatgc gggccttgca      360
tgctgttggc tctggagcct ctcgtctcac aggtctctac aggtgcaggc cactcaccgt      420
ctggtggtca ggaccataaa ggacagggtt atgttaaagg ttttgcctca aaccagaagg      480
cgaggaccct ttctgtccag ttgccggaat gatgtcatga ggaactgtgt gcccaggcac      540
gctgtgctag ttacaacatg tgttttttgt tcattcccca cacactgtaa ggtgggcatc      600
actgggccca tcacacaggt gaaacagaag cccgggaatc actcgtcccc ttgcccagtc      660
atacaactag tagccaaggc agaatttgaa ctcatgttgc cctcagtccc aaaacctgtg      720
tacttaaccc ttgttctctc ctgctggtgt ctgtgtgatg tcccatgtct gtctgtctct      780
ctctaaaggg acagtgacac accaggagga tacccagatg ctggggggcc ttgggacaga      840
gtctgggagg attgagtgaa ggagcaggtg agggtgagcc tggagagaga acgccctggt      900
ggagagttta tgtagaaagg ggattaggtc tccgggagga accggatcca tgtggtctgc      960
tgagatggct gagtctggca ttcagatgtg ccacccaaca gaagaggccc tggagggacg     1020
ccccctttgc tgggtggcag ccgtgggatt ccggggtctg ccttggaggt cctggagagg     1080
atgtcgtggc cctggcccta gactcaagct gcctgggtcc agttcagccc ggccactcct     1140
gctgtgggc ctagccaggg gccttcactc caccgactgc tgtgtgtttg gtacatggtg     1200
tcacccaggc catgtgctta gcaatgtgcc tgacagccag tgccggtgtc agccattaca     1260
gggacacacg tgcctggagg ttgaggccac gttctgtcac ctaggcccgc tcgtggtcct     1320
gggctgggcc aaaccccct ttgaaaggat tcctttttgc ccctggcata ggctctcatt     1380
gtcctagtga acagctacat cttttttaaca agccagaaaa ggccagctgg cagtggctct     1440
gcctgaaatc ccaagactgg ctggccgaag caggaggatc acttgaggcc agcctggcca     1500
aagtaagcaa gactctgtct ctacaaaaaa ataacaaaaa aaaaaaaaaa aactcgag       1558
```

<210> 67
<211> 1322
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (11)..(11)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (690)..(690)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (719)..(720)
<223> n equals a,t,g, or c

<400> 67
```
ctragcaact nagtgggatc ccccggrrct ggcaggaatt cggcacgagg tggaatctgt       60
gacccagaag taacaaactc ctttcttgga gagcagttag gtattccatt ccttagtcca      120
tatgccaaca tttaaaaagg ccaaaaccag aggcctagaa aatgtatctg gaagttgcag      180
tgagaccgtt tttgatcatt gtggccttcc tggggctcag tttcctcgct ttgcaaatgc      240
cattttggca gggatctgct gtggggcatc tccgtgcagg tggagctgga gttgcgcatc      300
tttctcaggc tggcatcata caggccccag tgcactctgg cagggagggg cagcccctc      360
ctggatagcc ccgsccaagg ccgggargac tgtgaagggg ggatcccact gcctgacctc      420
agcctgtcgg gccccacagc gcgtctctct gtggactggt cgccggcttc ctgtggcctg      480
```

```
tgtgtcctcc gagtggctgg agctttggaa ccctattctg tagcttggag ctcctgagcc    540
tcaaagggca ggggcctggt tccttgccca tccttgccca gcctgatggc ctgtgcttgt    600
ggactgtaca tgggcacctg ctttaacacc tggaggagta ggggctacca agaagcatgt    660
ggctctgggc ctccctggga gagtcactcn gcggcaggag aactgagtgg gacacatcnn    720
ggagtgtctg tctcatggac scctkttggc ctgcagcctg gagagggggc ctgaagtgtg    780
tgttccatgc tcttgacccc cagkaagcac tcgcctctgt tgaaagcctc gtgccgcaga    840
gcgcgattgc tgtcccgggt ggacggccat cacgggctcc ttgctccggc gatgccagcg    900
ctcctggtgt tgtgtgtggc tggctccccc ttgtctcagc cctgggctta gagcaggcca    960
ggtgctcagg cagtggtttt gttgcttgaa ggggggtgtg tacctggctg cagcctgtgg   1020
agagcgtgag tggctggcag aagcaaaggc gggctcttgg gagatgagag caggccgcca   1080
gcctggaggc ttccatgggg ctggtcagct cctgctggct cttcctggca caaatccacg   1140
ctgggctggg tgccttggct cacacctgta atcccagcac tttgggagcc tgaagtggga   1200
ggatcgcttg agcctgggag ttcaagacca gcctgggcaa cactgtgaga ccctatctct   1260
attttaaaa ataaaaatat aaagataacc cttcctycaa aaaaaaaaaa aaaaaactcg   1320
ag                                                                 1322
```

<210> 68
<211> 865
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (445)..(445)
<223> n equals a,t,g, or c

<400> 68
```
gaattcggca cgagcagacc tgggctcgag accataactg tttggctttta acagtacgtg     60
ggcggccgga atccgtgacc gggctgtggt ctagcataaa ggcggasccaa            120
gaagaagggg cggggtatgg gagaagcctc cccacctgcc cccgcaaggc ggcatctgct    180
ggtcctgctg ctgctcctct ctaccctggt gatccctcc gctgcagctc ctatccatga    240
tgctgacgcc caagagagct ccttgggtct cacaggcctc cagagcctac tccaaggctt    300
cagccgactt ttcctgaaag gtaacctgct tcggggcata gacagcttat tctctgcccc    360
catggacttc cggggcctcc ctgggaacta ccacaaagag gagaaccagg agcaccarct    420
ggggaacaac accytytcma gccanctcca gatcgacaag gtacccagga tggaggagaa    480
ggaggccctg gtacccatcc agaaggccac ggacagcttc cacacagaac tccatccccg    540
ggtggccttc tggatcatta agctgccacg gcggaggtcc caccaggatg ccctggaggg    600
cggccactgg ctcagcgaga agcgacaccg cctgcaggcc atccgggatg gactccgcaa    660
ggggacccac aaggacgtcc tagaagaggg gaccgagagc tcctcccact ccaggctgtc    720
cccccgaaag acccacttac tgtacatcct caggccctct cggcagctgt aggggtgggg    780
accgggagc acctgcctgt agcccccatc agaccctgcc ccaagcacca tatggaaata    840
aagttctttc ttacatctaa aaaaa                                          865
```

<210> 69
<211> 1150
<212> DNA
<213> Homo sapiens

<400> 69
```
gcggatcagg agaaaataag gaatgtcaaa ggaaaagtaa ttctgtcaat gctggttgtc     60
tcaactgtga tcattgtgtt ttgggaattt atcaacagca cagaaggctc tttcttgtgg    120
atatatcact caaaaaaccc agaagttgat gacagcagtg ctcagaaggg ctggtggttt    180
ctgagctggt ttaacaatgg gatccacaat tatcaacaag gggaagaaga catagacaaa    240
gaaaaaggaa gagaggagac caaaggaagg aaaatgacac aacagagctt cggctatggg    300
actggtttaa tccaaacttg aaggaatccg aataactaaa ctggactctg gttttctgac    360
tcagtccttc tagaagacct ggactgagag atcatgcggt taaggagtgt gtaacaggcg    420
gaccacctgt tgggactgcg agattctcaa ggggaaggac tgggtctcat ttctcccatc    480
tcagcgctta gcaggatgac ctggtataga gcagggaact gggaaatgtg ggtcagggga    540
tcagacactc cagttgggtc ttttatataa attaaatggc aaaaggctcc ataccttct    600
ccttctttcc taccctccac tttatctgca aaatgggaat gatgataaca cccacttcat    660
agaatggtca tgaagatcaa atgagagaat aaaagtcaag cacttagcct ctggtgcaca    720
attagtatta aataagtata cctattcctc cttttccttt tttaaaaata atattaccaa    780
atgtccagct tatacacatt tacaagactt agctagtggg ctatgttaga gctactaaaa    840
gatctttgac aagctaaaac taagatgcaa tgaatgaggt gtaacgaaca agagagtttt    900
aagttcagaa atggttacag aagtataaga cagctgtgtg ggtgtttttt gatttttggt    960
ttctggttta caatctcgtc attcaacaaa gatgggagtt ttatagaact aaaaagcacca   1020
```

```
tgtaagctac taaaaacaac aacaaaaaag gctcatcatt tctcagtctg aattgacaaa    1080
aatgccaatg caaataaaaa tgattacttt ttattttaaa aaaaaaaaaa aaaaaaaaaa    1140
aaaaaaaaaa                                                           1150
```

<210> 70
<211> 1398
<212> DNA
<213> Homo sapiens

<400> 70
```
gggagatagg aatggaattg atggctttat tcttcagaac taccaccgta gcagccatgg      60
caagcagggg cgcccttgcg ttgttcttga ggaaaatatt aagtgaggct aaattcaaac     120
tgagcctgac tccccaaccc ccacaaccct tttatatata tatggcatat tacagtgaga     180
atttcttttt aaagttttag gtctttgtct ttttcttgat aaaattatag ttataatagt     240
tgtcataagt taatcaatcg tatgttttaa gtgcccttag tgcaaaattt gatgcccctg     300
gatactgttg atttattaat atgaaatata cctttgttaa tttttaattt tatggatagg     360
tgtatatgtt tatggggtgt gagatacaac ttactctatt tacgttactt accgcagaac     420
cacatatttc ttccaaatgt ccatgcccta tcttagttac aaaaacacaa tcatttgcca     480
agtgaattat cggtgattat tagaaatcat ttatactgtg gttctgtgtg catttaaact     540
ataatatact tagaaaattat tcttgctttg gtaaaatact ttccttctta ttcaagagga     600
ttttttgggt catgctgtct tgttatatac tcttttaagt ttattatgat tgtgtgtgta     660
tatgtttgtt ttttcttttt ccttctgtct gaattctgtt gcactgagca atgttgtaat     720
atttttattt taaatataag taatatttaa aattactgga aatatgtaac catcagatta     780
ttatctccta atgataaaca gaatttgtta attaagctaa acctagaatt gtagacaatt     840
attttacat tgcatctaca ttaaaatgct atctcaaaca cacatacttg gttgtgtaat     900
atttatctac tcattaagta gaaagagtaa attaaaaatt gcttttggat tattgatgag     960
ggtggattat actttagaac actttattca aacagttctt ccacatatct ccctttttgac    1020
ttgactgagc aactctcttt ctgtgcttcg gtttggtctc taagtcagag ttaatatttc    1080
ttgctctatc tagcatatag aagcattgtg ggctgggtgc agtagctcac acctgtaatc    1140
ctagcacttt gggcagattg cccaagctta ggagtttgag atcggcctgg gtaacatggc    1200
gaaatcccgt ctctactaaa aacacaaaaa aattagctgg gtatggtggc gcacgcctgt    1260
aattccagct acttgggaag ctgaggcgca agaattgctg gaacctggga ggcggaggtt    1320
gcagtgagcc gagatttcgc cttgcactcc agcctggcga gattctgtct ccaaaaaaaa    1380
aaaaaaaaaa aactcgta                                                  1398
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<210> 71
<211> 1557
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1541)..(1541)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1549)..(1549)
<223> n equals a,t,g, or c

<400> 71
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gcaaaggtga agctggtttt catggtctcc tgagggcccc tggcccctgg gagatgggtc      60
acactccctg aatgctgtgc tgttggtttc cctggaggat tcttgctgca ggccaggtcc     120
cgtattctcc acactcacca caagtggctg ggtgtgactt gacacggtgt gaaagtggag     180
gggcgcgagc actcagtatc cagcgagcag cattggtggt cctagaaaat tactacaaag     240
atttcaccat ctataaccca aacctcctaa cagcctccaa attccggagca gccaagcata     300
tggccgggct gaaagtctac aatgtagatc ggcccagtaa caatgccact ggccagtccc     360
gggccatgat tgctgcagct gctcggcgca gggactcaag ccacaacgag ttgtattatg     420
aagaggccga acatgaacgg cgagtaaaga agcggaaagc aaggctggtg gttgcagtgg     480
aagaggcctt catccacatt cagcgtctcc aggctgagga gcagcagaaa gccccagggg     540
aggtgatgga ccctagggag gccgcccagg ccattttccc ctccatggcc agggctctcc     600
agaagtacct gcgcatcacc cggcagcaga actaccacag catggagagc atcctgcagc     660
acctggcctt ctgcatcacc aacggcatga ccccaaggc cttcctagaa cggtacctca     720
gtgcgggccc caccctgcaa tatgacaagg accgctggct ctctacacag tggaggcttg     780
tcagtgatga ggctgtgact aatggattac gggatggaat tgtgttcgtc cttaagtgct     840
tggacttcag cctcgtagtc aatgtgaaga aaattccatt catcatactc tctgaagagt     900
```

```
tcatagaccc caaatctcac aaatttgtcc ttcgcttaca gtctgagaca tccgtttaaa    960
agttctatat ttgtggcttt attaaaaaaa aaaraaaaat atatagagag atatatatct   1020
atgccagagg ggtgtctttt ttaaaaattc ttcttcattg ctgactgaaa ctggcagatg   1080
attgaccagt atcctttgac catctgcact ttatttggaa ggaagcaggg gctgtccacc   1140
ctgaaaaaga gtgactgatg acatctgact tttgtcgatg ggacttctca agaagccatt   1200
ccttggagct tctgttacag ctgtaaacca aagtggagct ggtgcttctt gggagcctcg   1260
ccttacaact agttcctgcc tttcgtccag taccaagtcc cccgttgctt ctggtcagcc   1320
cacttgtaga cttccagggg acacatcttt attctgtttc aggaaaccag tcacracacg   1380
tccacatatg tatttgtgta tgttaatgcc agtatcacat cacccatgaa agtcgtgggc   1440
agttcargag atacctgsct tcgtctttgk tctttgttgc cttaggttct tcagagaaag   1500
atcmcaacaa aaaatgtacm ctgtcgttta cagctawaag ngatttgant tgtttttt     1557
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<210> 72
<211> 1163
<212> DNA
<213> Homo sapiens

<400> 72
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ggcacgagct ggctgcaggg tctctgggga gagaaggggc ctcggcttca caggatgggg     60
ctgccagtgt cctgggcccc tcctgccctc tgggttctag ggtgctgcgc cctgctcctc    120
tcgctgtggg cgctgtgcac agcctgccgc aggcccgagg acgctgtagc ccccaggaag    180
agggcgcgga ggcagcgggc gaggctgcag ggcagtgcga cggcggcgga agcgtcccta    240
ctgaggcgga cccacctctg ctccctcagc aagtcggaca ccagactgca cgagctgcac    300
cggggcccgc gcagcagcag ggccctgcgg cctgccagca tggatctcct gcgcccacac    360
tggctggagg tgtccaggga catcaccgga ccgcaggcag ccccctctgc cttcccacac    420
caggagctgc cccgggctct gccggcagct gcagccaccg cagggtgcgc tggcctcgag    480
gccacctatt ccaacgtggg gctggcggcc cttcccgggg tcagcctggc ggccagccct    540
gtggtggccg agtatgcccg cgtccagaag cgcaaaggga cccatcgcag tccccaagag    600
ccacagcagg ggaagactga ggtgaccccg gccgctcagg tggacgtcct gtactccagg    660
gtctgcaagc ctaaaaggag ggacccagga cccaccacag acccgctgga ccccaagggc    720
cagggagcga ttctggccct ggcgggtgac ctggcctacc agaccctccc gctcagggcc    780
ctggatgtgg acagcggccc cctggaaaac gtgtatgaga gcatccggga gctggggggac    840
cctgctggca ggagcagcac gtgcgggggct gggacgcccc ctgcttccag ctgccccagc    900
ctagggaggg gctggagacc cctccctgcc tccctgccct gaacactcaa ggacctgtgc    960
tccttcctcc agagtgaggc ccgtcccccg ccccgccccg cctcacagct gacagcgcca   1020
gtcccaggtc cccgggccgc cagcccgtga ggtccgtgag gtcctggccg ctctgacagc   1080
cgcggcctcc ccgggctcca gagaaggccc gcgtctaaat aaagcgccag cgcaggatga   1140
aagcgaaaaa aaaaaaaaaa aaa                                            1163
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<210> 73
<211> 1486
<212> DNA
<213> Homo sapiens

<400> 73
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cggcacgagc cagggctgag gtaggaggga gtctgtccct cgacgcctcc tgcgacgcca     60
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gagtccaatg cccgcgtttt accttattca ataagaaggg cttcatttat ggcaagacag    180
gacagccaga caaaatatat gtagagttac atcaaaatag tccagtcctt atctgtatgg    240
atttttaagct ttctaaaaaa gaaatagtgg accccaccta cttatggatt gggcctaatg    300
aaaagacgtt aacaggaaat aatagaataa atataactga aactggacag ctgatggtga    360
aagatttttt ggagcctttg tctggacttt acacatgtac tctttcttat aagactgtta    420
aagcagaaac tcaagaagaa aaaacagtca aaaagagata tgactttatg gtctttgcct    480
atcgggaacc tgattattca tatcagatgg ctgtacgttt taccacaagg tcttgtatag    540
ggagatacaa tgatgtattc tttagagtgc tgaagaaaat cttggatatt ctaatttctg    600
atttgtcatg ccatgtcata gagccatcat ataaatgcca ttctgttgaa attccagaac    660
atggcctcat acatgagcta tttatatcat ttcaagttaa tccttttgcg ccggggtgga    720
aaggtgcttg caatggatct gttgactgtg aagataccac taatcataat atcctccagg    780
caagagatcg aatagaagac ttttttcgga gccaagcata tattttctac cataacttta    840
ataaaactct accagcaatg cattttgtgg accacagttt gcaagtagta cgtctggata    900
gctgtcgacc aggctttgga aaaaatgaac gtctacacag taattgtgct agctgttgtg    960
tggtttgtag tcctgcgact tttagtcctg atgttaatgt aacttgtcag acctgcgttt   1020
ccgtccttac ctatggagct aaatcttgcc cacaaacttc aaacaaaaat cagcaatatg   1080
aagattagag gtgaaagcat tgttacttac ttgtggaagt cggggacata agatgatctt   1140
cacatcccag agcatcatag atagttccat taagtaaaat cagtaagacc aaaccactgg   1200
gaaaacatgc attttggaaa ctttaaaata aaatgggtta acatggcatt tctaagaagg   1260
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```
catttaatcc ggtatctcta gtgtacaaag gaaacttgaa gttttcatgg attattttta   1320
atgaaatgtt ttattgttta caaacggtat gttgctgtgt acctaagggt ttagtaaggt   1380
caagaagggt ttcaaagttt aataaaataa aaattgtata ctctccaaaa aaaaaaaaa    1440
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa                  1486
```

<210> 74
<211> 1553
<212> DNA
<213> Homo sapiens

<400> 74
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tgctgggcgt cctgttcttc caggtgagtg ctccggctgg ctacgctcca cttccggccg   120
gggggttagg gaagatggtc gcttttccgg ttccgggtag gggggtctcc agaaagcccc   180
cgcatagctc tgggaaggaa ggagggaggg agcgggacgt tgggacgatg tcatcaccac   240
cccgttgagg atagttggta ttttgtcagt cctttcctga gccttgggag cttttcacc    300
ttgcgtgacc tgtcattgta tttggtgata catacttgat ggaacacaaa tagctctggc   360
tttggggggca cccggtgtta ttttgtggtg ttattatcag tggttgaccg ctgtcgtttg   420
ggcgctgtat accctgatta gaaagaaaac agttctagca ttcagtagtt tgccccagta   480
gttttgggaa acaaaatcat gacagttggt aattttattt tttgtagtga ttattgtagt   540
ctataaaatg aaatatttgc taatcacaga aaggatgtga tgtgattcgt tatagaaaaa   600
catatcgatg aaaaagtact gctttagcat ttcataactt tttttaatac aagaaagagc   660
atataaattc tgttaaaatt tattaagtaa tatcagaagt agggtattca cactgacatt   720
cacatcttaa aattaggtga gttttgcttt catataattt tcagattgca taaatttcaa   780
tccagcctaa ttaccttcat ctcaaggtac aattatttcc tggattttgt gtatgtgtgt   840
cttcctggga aataaaatat tagtatatct agtattagag tgaattgcta aatttataaa   900
atttccttga gggtaatggg gatttctgaa agagatattt aatattatat aaatataaag   960
actttaatat aaagacttca gatgtcctaa atcttagcag ttaaggctgg aaagttttta  1020
actgttgact aatattcatg ttgccagcac accccccgatc cctcccagct gcctgtgtca  1080
tcataagtct ccagttttta agctaaatta ctttgcagta tgatatttag ctggcctact  1140
gtcactccta ataaacccag tcctctctct ctctctttct cacacacaca cacacacaca  1200
cacacacaca cacacacaca cacgagaa atattcaaat attgtcttat tgagaaaaaa  1260
aatctgggaaa tggtgtttttc ttaaatctaa tgtcatgttg ctttgaagag catctgtcaa  1320
gtccagcaga ccatataatt caatcaaaca tttaaagttg attttacaat ctctatgtac  1380
ttgtggaata gattttttgc cttttaaaaa ataactggtg gcagggtgtg gtggttcttg  1440
cctgtaatcc cagcactttg ggagaccgag gcagctggat cacctgaggt caggagttcg  1500
agaccaggct gaccaacata gtgaaactcc gtctctacta aaaaaaaaaa aaa          1553
```

<210> 75
<211> 1650
<212> DNA
<213> Homo sapiens

<400> 75
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ggaacctcat caacgctgac ttctgcgtgg cctctgtctg cgtggccttt ggggcagttc    60
tgggtaaagt cagccccatt cagctgctca tcatgacttt cttccaagtg accctcttcg   120
ctgtgaatga gttcattctc cttaacctgc taaaggtgaa ggatgcagga ggctccatga   180
ccatccacac atttggcgcc tactttgggg tcacagtgac ccggatcctc taccgacgca   240
acctagagca gagcaaggag agacagaatt ctgtgtacca gtcggacctc tttgccatga   300
ttggcaccct cttcctgtgg atgtactggc ccagcttcaa ctcagccata tcctaccatg   360
gggacagcca gcaccgagcc gccatcaaca cctactgctc cttggcagcc tgcgtgctta   420
cctcggtggc aatatccagt gccctgcaaa gaagggcaag ctggacatgg tgcacatcca   480
gaatgccacg ctcgcaggag gggtggccgt gggtaccgct gctgagatga tgctcatgcc   540
ttacggtgcc ctcatcatcg gcttcgtctg cggcatcatc tccaccctgg gttttgtata   600
cctgacccca ttcctggagt cccggctgca catccaggac acatgtggca ttaacaatct   660
gcatggcatt cctggcatca taggcggcat cgtgggtgct gtgacagccg cctccgccag   720
ccttgaagtc tatggaaaag aagggcttgt ccattccttt gactttcaag gtttcaacgg   780
ggactggacc gcaagaacac agggaaagtt ccagatttat ggtctcttgg tgaccctggc   840
catggccctg atgggtggca tcattgtggg gctcattttg agattaccat tctggggaca   900
accttcagat gagaactgct ttgaggatgc ggtytactgg gagatgcctg aagggaacag   960
cactgtytac atccctgagg accccacctt caagccctca ggaccctcag taccctcagt  1020
acccatggtg tccccactac ccatggcttc ctcggtaccc ttggtaccct aggctcccag  1080
ggcaggtgag gagcaggctc cacagactgt cctggggccc agaggagctg gtgctgacct  1140
agctagggat gcaagagtga gcaagcagca ccccacctg ctggcttggc ctcaaggtgc  1200
ctccacccct gccctcccct tcatcccagg gggtctgmct gagaatggag aaggagaagc  1260
tacaaagtgg gsatccaagc cgggttctgg ctgcagaagt tctgcctctg cctggggtct  1320
```

```
tggccacatt ggagaaaaac aggctcaaag tggggctggg acctggtggg tgaacctgag    1380
ctctcccagg agacaactta gctgccagtc accacctatg aggctcttct accccgtgcc    1440
tgcacctcgg ccagcatctc ctatgctccc tgggtccccc agacctctyt gtgttgtgtg    1500
cgtggcagcc tccaggaata aacattcttg ttgtcctttg taaaatggtg tgaatgctcc    1560
aatggggcca gtttgaggga gaaaaggacc caagagacct gcttctgccc cagcccttac    1620
cttcatccaa gggtaccaac cacactgcga                                     1650
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<210> 76
<211> 2150
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (874)..(874)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1198)..(1198)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1201)..(1201)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1266)..(1266)
<223> n equals a,t,g, or c

<400> 76
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ccacgcgtcc ggacccgagc tccagtagtt ccgcccgctg gtcatcgcgc cctttcccct      60
gccggtgtcc tgctcgccgt ccccgccatg ctgtctctag acttttttgga cgatgtgcgg     120
cggatgaaca agcggcaggt gagcttgtcc gtcctctttt tctcctggct cttcttgtcc     180
cttcgaggct gctgctgcgg ggcccggcgg accccagggt tctggtgtga gggtctgagc     240
tggtctgata cccgggtcat tcgctttctt tggagactgt ggccagaggc cgccttgtcc     300
gcctcattat ttttaacccc gaactgattc agggcctacc tggggcgggg cgggaagcgg     360
tgtcttcacg ttccattcct cccactgagg caggggagca aatggaaacc gtacgcgctt     420
gaagtgggag ttggggtgct tattgtttta gtcattttaa tgcggcggac tcttgatttc     480
tccagtcgga gcgactccag gtggtttcgg gagagacgag gtttagccgg tttctggggc     540
gctcaggaag gcgattggag gccccacaaa aaccgtttтg ctgctttcag ctccttgcaa     600
ccctttagta gagctgaacc gtagcgggct gcaccgactt tgacttggac cactctgggc     660
tccgagttgg aacagttaca ctacttgccc ttgcgtccgc ttagcactaa ggcggcagcc     720
ctcggaatct atggtttтac agtccaatat cagtgccacg gggatctgga aatgtaggtc     780
tcctgatttt gtccttacac tttactttga tcttctagat cgtatgccaa atagtactga     840
gaatattgtt gtaattattt agtccttaga aaangttgtt ctgttttatc ttttgcgcct     900
agtgtgtctg tagagcctag ttttgctgca tcggactttt tttttgtttt aaacagtatt     960
ttactgttat gattatcctg atgtcaccat taaggatttt ttttttcctt ggacttgcat    1020
tttttgtact tataactgcc acttagggaa gtagatacac aacctttcct tactcccctt    1080
caggccttag ctagctcagt gtcaattctg tcagtcagaa ttgagcattc tataaaaatt    1140
gcgcaaacgt tactttatgt ctttatgaca acacttcaaa tttttacttg tatagtgntg    1200
nctttttttta atccatattt ggatttctag atgccacaga tatttctctg aggaaagtat    1260
ttattntgag tctgatattt attgactcta tgctaggtcc aatgagagaa atgcaaagat    1320
agttaagaaa gactcggcct tcaaggagcc taaatgtgta gaaaaggact aaggcaaaac    1380
aataactttt ttgagctctt gccatgtgtg aagcacttta tacacctgta aggtaggtaa    1440
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ttaagaatat ggactctaaa gctagatttc agaggtttga agtagctctg ctacttactg    1560
gctgtgtgac tttgagcaga ttacttaacc tgtctgtgcc tatgtttact tttattgttg    1620
taaaaagata tgcaacataa aatattccat ttcaaccgtt tttacgtgta tacttcactg    1680
acattagttg cattcactat gttgtgcaaa cgtagggtcg ctatgaagat taaatgagtt    1740
aattcatata aagccctcag aagagtgtct ggcacatggt gagtattggc tgtactgtgg    1800
tcgatgtcat tgttagagag ctttagtgat ttgcttaaga cagaaggtag actgggtgcg    1860
ggtggctcac gcctgtaatc ccagcacttt gggaggctga ggcaggcgga tcacaatgtc    1920
aagagattga gaccatcctg gccagcatgg tgaggccccc tctctactaa aaatacagat    1980
```

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actagctggg cctgttggcg cacgcctgta gttccagcta ctcaggaggc tgaggcgggg    2040
gaatcgcctg ggaggtggag attgcagtga gctgagatcg tgccaccgca ctccagcctg    2100
gtgacagagt gagactccgt ctcaaaaaaa aaaaaaaaaa aaaaaaaaaa               2150
```

<210> 77
<211> 1592
<212> DNA
<213> Homo sapiens

<400> 77
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cggatttgtt gagtgaatga gaatagtcag tcaagactct ggattgttga attttaggtg      60
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aaaccgaaga aatattttat tatttgttgg ggcttctcta attttttgtat agctttagta     180
agctgaatta gatggcatgg aaccgagaag tttccttcta cctgaattgg gtgggagagt     240
gtcacacatt cctcttggcc tcactctggt tttttgcctgc tttcttatgg ttaggggagac    300
tgcaggaggt tttagcttca gagcaggaga cttagaagaa atctcaagaa agagaacaaa     360
tgtattaggg tctcttagag ggacagagct aataggatat atataatcct attatatata     420
tacacagaca cacacacaca tatatatata tacacatata tacatatata tacacacata     480
catgtatata catatatata cacacataca catgtatata catgtatata cacacatata     540
catgtatata catgtatata cacacatata catatatata catatatata cacacacata     600
catgtatata catatatata tacacacata tatgagttta ttaagtatta atttacatga     660
tcacaaggtc ccataataga gtgtctgcag ctgagggcaa ggagagccag tccaagtccc     720
aaaattgaag aaattggagt ccgacatttg agggctggaa gcattcagca caggagaaag     780
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cactggaaga tgattaaatt atgcacacta gattaagtgc agatgtgcct tccccagccc     900
actgactcaa atgttaatct cttttggcaa aacccaacag acacacccag gattaatagt     960
ttgtgtgctt cagtccaatg aaattgacat tcagtattaa ccatcacaac aaacgtgcat    1020
ttacattgca tagtgaagt ccttgaactt gttcagtcca gtttcaggtg tcttatttct    1080
tgggggtaga ataagaaaag cagagagaag tcttcttttc ccttggagca ctggttctca    1140
gatacttttta ttttctagcc tcttatgggg taataataat taaaatgaag aaaaataaaa    1200
taatagtaaa atttgaaaca atgcaaaaaa tgtaaaaacg aaattactga aaaaagggcc    1260
cccattcgcc agaagtaggc aggtggctcc cagaggtggg cagagcttag gctgaaggag    1320
gcgggctgag ctgcacctgg ggtggagagg gcctgagtcc actcctagtt aaggtctgtc    1380
aaacccatct gcaccgctca tctgccgcag gggaggctgt gaggggggcag aagcagctcc    1440
tctccctgag ggctagccat ctggagggag acctacagac ctaatgttta tgctgcatgc    1500
tggaatagaa ggaatcgtgt ggtgctgagg gaacctgtcc cctaacccag accagaggag    1560
gtccggaatt cgatatcaag cttatcgata cc                                 1592
```

<210> 78
<211> 1579
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1529)..(1529)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1556)..(1556)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1569)..(1569)
<223> n equals a,t,g, or c

<400> 78
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gccacccggg cctcagggac cccttccccg agagacggca ccatgaccca gggaaagctc     120
tccgtggcta acaaggcccc tgggaccgag gggcagcagc aggtgcatgg cgagaagaag     180
gaggctccag cagtgccctc agccccaccc tcctatgagg aagccacctc tggggagggg     240
atgaaggcag gggccttccc cccagccccc acagcggtgc ctctccaccc tagctgggcc     300
tatgtggacc ccagcagcag ctccagctat gacaacggtt tccccaccgg agaccatgag     360
ctcttcacca ctttcagctg ggatgaccag aaagttcgtc gagtctttgt cagaaaggtc     420
```

```
tacaccatcc tgctgattca gctgctggtg accttggctg tcgtggctct ctttactttc    480
tgtgaccctg tcaaggacta tgtccaggcc aacccaggct ggtactgggc atcctatgct    540
gtgttctttg caacctacct gaccctggct tgctgttctg gacccaggag gcatttcccc    600
tgggaacctg attctcctga ccgtctttac cctgtccatg gcctacctca ctgggatgct    660
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gctcttcgtg cttctcatga ctctttttctt cagcggactc atcctggcca tcctcctacc    840
cttccaatat gtgccctggc tccatgcagt ttatgcagca ctgggagcgg gtgtatttac    900
attgttcctg gcactttgaca cccagttgct gatgggtaac cgacgccact cgctgagccc    960
tgaggagtat atttttggag ccctcaacat ttacctagac atcatctata tcttcacctt   1020
cttcctgcag cttttttggca ctaaccgaga atgaggagc ctccctgccc caccgtcctc   1080
cagagaatgc gcccctcctg gttccctgtc cctccctgc gctcctgcga gaccagatat    1140
aaaactagct gccaacccag cctgtggcca ggtcactgtc taccccagcc cagcccagcc   1200
ctctgccgct tgtacatacg ccatggggac cctgaggaac tgaggccacg tcaatccctg   1260
tgccgcccca ttcgcccgtt acatcttcca aactgggacg gtcaaggctg aaggctcctc   1320
tgggtttgag ggtccaaggg acaaggagga gaagcctagc aggatttcag atgcaggaga   1380
gagacccagg aagcccggca gagcctgagc cccaytgcaa ttyctyctag ggstgcacaw   1440
tcatgtggcy ttagggcama ytgtyctgca tccagtctgt gtyctyctgt ctttctcatc   1500
caggtcaggc attgacattt gtaagaaang gggtaaggga cacagctggg caagtngatt   1560
ggttggcang attgctgtc                                                 1579
```

```
<210> 79
<211> 1396
<212> DNA
<213> Homo sapiens

<400> 79
ggcacgagaa aaatatgaag tgcacagctg tgtttgcacc atcagcatgg ccaaacaccc     60
tttctcttct cgtttctctc cacacagtga tgtgcattaa ctggcacctg gtttctgcat    120
cacacatgca tattgggaga attgttattc tagaagggga tggaatgtga cacacctcag    180
ataattgctc tgagaaatga gtatgaggtc tttttaaaaa aactttacat ttaaacacac    240
aaaccatttа aaaaaaccac tcctccaaaa cagacacaca agtgaaacaa accaaatcga    300
ctgtccatcc atttaatttt gaactatctg caatatcacc ttaaagctct aagctcctaa    360
tgattttggt cattacaaat ccaaaataac attatttcaa aatgaagttt tactatgatt    420
tttcccattt gggaaacagt atatccaata caacaagatg catgtgtacc tccattaaaa    480
ttttaacaat taggaaaatt agaatttata tatgatagat taaaatatga ttatttccta    540
aaagttttct ttagtttttac aggtttgctt ctggattgct ttcaatagtt attagtgaat    600
ttaaaatttg attcagtatg aaggtaatgt acacccatct tcttcagaac acgtattta    660
aaatgtgaca tcatctgttc tgagtctaag cactgaagaa tgaagtgtcc acattcaccg    720
tatttatgca cagacacatt ctcattccat tgacatttaa gtgatgtaat gaactaaaac    780
tgccacaaag agaggagggt tgggaggctg agctctggac agctctgtca ctgggcaagt    840
aacatggtgt ttagaaaatc tctgctcctt tctgtgccat tggtctatat ctctgttttg    900
gacaaaaaac caaacaccgc atgttctcac tcataggtgg gaattgaaca atgagaacac    960
ttgcacacag gaaggggaac atcacacacc ggggcctgtt gtgggatggg gagagcgggg   1020
aggaatagca ttaggagata tacctaatgt aaatgacgag ttaacgggtg cagcacacca   1080
acatggcaca tgtatacata tgtaacaaac ctgcacattg tgcacatgta ccctagaact   1140
taaagtataa taaaataaaa ataaaaatta agtaaagtaa aataaaatct ctgctcctgt   1200
ttgctgtccc cactgataaa atggtagagc agatcactcc taagtcagag cttgtgtaat   1260
agctgcgtag gagtgtgaaa ccaggctact tgggagccag tgctggctcc agaactttcc   1320
agctgcgtgt ccttgggkca ggtggtttac actctgttgc ctcagtttct ccagcaataa   1380
aaaaaaaaaa aaaaaa                                                    1396
```

```
<210> 80
<211> 1230
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1223)..(1223)
<223> n equals a,t,g, or c

<400> 80
cagcaccatc gcctacctga cctcccagct gcacgccgcc aagaagaagc tcatgagctc     60
cagcgggacc tcagatgcca gcccgtcagg gagccccgtg ctggccagct acaagccagc    120
gccccccaaa gacaagctac ccgaaacgcc tcgccgccgc atgaaaaaga gcctctcagc    180
```

```
cccccttgcac ccggaatttg aagaggtcta cagattcggg gcagagagca ggaaactcct    240
tttgcgggaa ccagtggatg ctatgcccga ccccacccca tttytgctgg ctagggagtc    300
cgccgaggtc cacctcatca aagagaggcc cctcgtcatc cccccatcg cctccgaccg     360
aagcggcgag cagcacagcc cggcccgcga aaagccgcac aaggcccacg tcggggtggc     420
acatcggatc caccacgcca ccccgccgca gccagcccga ggtgaagacc ctggcggtcg    480
accaggtgaa cggaggcaag gtggtgagga agcactcagg gacggacaga actgtgtgaa    540
gcccgccgtg ccccacccg cgctgtccat gcactgtgag caccactggg aaatctcagc     600
cacacctttt ctgtttaatc ccatgcatgc caaacacttt tcacacctac cgacccattc    660
tccttctgct tctcttgccc tcttcttcac accaaaatat gatcgtgtcc ctgccgcaga    720
atatgtattt cctaattgct gtggccaaac gcctgtgtgc cgaatcgctt gcttctgatc    780
ccgctccgtg taacctaagt gcgctgcagg caaagcccag gccacggctg cgtcactact    840
gatgttcacg atgccacaca gtcacacacc taattcattc tcaagtcgga gcaacacata    900
ccaaccttga ccttatcctc aagctccagg gcagcctggc cgagcagccc ctgctccctc    960
ctggagaccc ttgtcacctc ccgagctcct cctggagacc cctgtcacct cctgaccaac   1020
ctttcccagg gcggcaccga tcaccgagca gccgtgcgtg tatctcaagg aactaaataa   1080
gatgacgcta ctcctcatag caccacaacc tgaatgtgtg ttcatatttt tttgttagtt   1140
ttatccaaaa tgtttaagat cccaacaaac tttattttct aaacctgcaa aaaaaaaaa    1200
aaaaaaaaaa aaaaaagggg ggnccccttt                                    1230
```

<210> 81
<211> 1139
<212> DNA
<213> Homo sapiens

<400> 81
```
acgcgtgggt ccggacgcgt gggcggacgc gtgggagcaa gcccaggcgg cggtggaaag     60
gctggaggac acacctaaac atgtggaatc ccaatgccgg gcagccaggg ccaaatccat    120
atcccccaa tattgggtgc cctggaggtt ccaatcctgc ccacccacca cctattaatc     180
caccctttcc cccaggcccc tgtcctcctc ccccaggacc tccccatggc aatccagctt    240
tccccccagg tgggcccct catcctgtgc cacagccagg gtatccagga tgccaaccgt     300
tgggtcccta ccctcctcca tacccaccgc ctgcccctgg aatccctcct gtgaatccct    360
tggctcctgg catggttgga ccagcagtga tagtagacaa gaagatgcag aagaaaatga    420
agaaagctca taaaaagatg cacaagcacc aaaagcacca caagtaccac aagcatggca    480
agcattcctc ctcttcctcc tcctcttcca gcagtgattc tgactgaata caggccctgg    540
acccttccct caagtctcac cagttctgct ctcccatcaa gcttcagatg ccatgttgta    600
ctgggggaat gtagcccttg tgctccccac ccccctacct scacctgagcc tcaccctgct    660
gttgagccct gagtggctag gggaaatggg aagaggattg ccatggcctg gccatcttgt    720
tgctgcttgg ttagatcata tagctaatga attaggcagg ggagctattt tttgaagatg    780
atgaactaaa tgttgaagac aagtttgaga tctgtaaaat gtgattttt acttccactt    840
ataatacttg tgattggga ggtttgtgga aattcaatta tgatgaaaaa cctatcttt     900
ttgtaatgtt ggcatacttg gggaatttag tggcaaatac attccccagc aggccttttg    960
ttggttgcac taactgcaag gttgctggga agtagagtcc atttggttga tgagctttga   1020
ctgcggtttt ggaaccttac ctctcctcct tagcccaata tgctgtcttg ggtcctattc   1080
aaataaagtt atttctcctg gtcwmaaaaa aacggcacga gcggcacgag ctacgtggg    1139
```

<210> 82
<211> 1409
<212> DNA
<213> Homo sapiens

<400> 82
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ggcacgagga acctcccgcg ggctttggac tgaggtccct gtggcgtcgg tctcctcccc     60
atgaagtggg agcgaggctc cccaatggtg ctttttggctt tagtgtacga tgtttgctgt    120
gcttccgccc gtggagggca gagccacccc acatcaggat cggacgtgct acccctcccg    180
gtcccggccc tggcccagcc agcccagccc tcgaggctcg atgcctgtgc caaggccagg    240
ggcagccaga gggcagctgg atggccacgt gcagggtcaa ggctgggccc tgcagtgggg    300
cgggccgcca gccccagcag tttacagacg catggctctt cctcccagag cagccggcag    360
ctacctggac cggaaatgtc ctcatcccct ccctgggggcc aggctctgcc ctggccttcc    420
tctgtgaacc cctcctttct ttgtgctgtc tcgggactcc tgaccgtggt gtgcgtgtgt    480
gcccgtctgt gactttctac tcaccaaggg ttgaagaaag gaaacgggga aaatcaaaag    540
gggttcaaac cccacctcag taggtggagg ggagcgcctg ccattggttg tattttgtt     600
ctgagttttc ggtgccgtgt cctaactac tccatcccat gacctcgcca cacctactgg     660
ggcatctggc tggtgcctgc tgccatggcc agcccccact ctcaccctgc acaggggtc     720
ttgcagcccc caggcccaca gcctcgttgg gaggacaggg tggccctggg acaagaggg     780
aggagcccag gggcttacct cactgagagt gctccccagc aggcatccac taccccaggg    840
ccccccacat gtcatggcaa ggttggtagt gaatgggcct ggttgggagc agccctggc     900
```

```
ccattgccca cccacccatc tcactatgca attcgagttc caagcaacat ttgctcctgc    960
cctggggcca gctctgcccc agccctgaga ggggtggtga ggcagccccc tggaccccag   1020
aaccccagac aagggggcag gcgggggacc agggcctctc ctgtgggatc tttgttttgt   1080
gtttaaccat aatggttgtg tactgaacca cttcatattt gttatatata atatatatat   1140
atataatctc cttaagactc agcctcctgg tttacccccc cggcctgggc atctgacctc   1200
cagcctctgt agggccatgg ctgtatgtac tgtcgctgtg tttttttgtt tttttagaac   1260
tgggtttggg ggctgatttt tatttctttg ggggcttttt ttcttggcaa atactaaaaa   1320
tctcgtcaat gtaatttctg tggtttctat tcagcttggg tttcatgttt taaaataaat   1380
tttaaaaagc aaaaaaaaaa aaaaaaaa                                       1409
```

<210> 83
<211> 714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (704)..(704)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (709)..(709)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (714)..(714)
<223> n equals a,t,g, or c

<400> 83
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attcggcacg agaccaaaga gaggcttggg acagacccta ccctctcagt cttcacagga    60
caacaaccct gcccgcacct tgatcttgga cttctagctt ccagagctgt gagaaaataa   120
atgtctattg tttaagccat ccagtttgtg gtactttatt acaacaaccc tagcaaacta   180
gtacaaaggg catgcaattc attctcactg gaataacact gtctgggtat ttgtttacct   240
tttctgcctg tgcagtgcta tcagccagca tcactgtctg gggtcttatg gagtgcctga   300
ttcacaggca tggatcccac acaacagagc atctgaccag gacacttact tcacagcaaa   360
gctccagagg tcacctgtcc ctatcacaca gcaccaccca aagtaatcaa cctgaaagaa   420
cattagcact gcttactgga ggaacagctg acttatcggt ttggaggcaa cactctccaa   480
agatgggtgc catcttccaa gatgctgtat ttgcacttga ctcacaggcc tatttatggg   540
gcattgtttc taatagggag aatatatggg tcctggaaca atggcccca cccaaggggt    600
tccattcttg ccaggaaaca ccgcaagagt cccattgagg ctgggcgtgg tggtacacac   660
ctgtaatccc agctactcga gagtaccttc taggagcggg cggngggcnc atcn          714
```

<210> 84
<211> 1097
<212> DNA
<213> Homo sapiens

<400> 84
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ccacgcgtcc gggcgctgct ttttgcacgt tctttgcgct tgtgccgctg gggagccaaa    60
cgattgggag ttgcctccac agaggcccag agaggcgtca gtttcaaact ggaagaaaaa   120
accgcccaca gcagcctggc actcttcaga gatgatacgg gtgtcaaata tggcttggtg   180
ggattggagc ccaccaaggt ggccttgaat gtggagcgct ccgggagtg ggcagtggtg    240
ctggcagaca cagcggtcac cagtggcaga cactactggg aagtgacagt gaagcgctcc   300
cagcagttcc ggataggagt ggcagatgtg gacatgtccc gggatagctg cattggtgtt   360
gatgatcgtt cctgggtgtc cactatgccc agcgcaagtg gtacaccatg ttggccaacg   420
agaaagcccc agttgagggt attgggcagc caagaagtgg ggctgttgct ggagtatgag   480
gcccagaagc tgagcctggt ggatgtgagc caggtctctg tggttcacac gctacagaca   540
gatttccggg gtccagtggt gcctgccttt gctctctggg atggggagct gctgacccat   600
tcagggcttg aggtgcccga gggcctctag tatgtccatt actggagtcc ctaatcacgc   660
ctttggccag cctccttttg aaagtgtccg aagccttttt actttgcctc aagcaacctc   720
tagctcccac aattcagtgt gggtcctct gtgcaatatc atgatcatct tcctcatccc     780
ctaccttgtg aaagctaggc atacagccaa accctccttt tccccaccca ccaacactac   840
tgccaatttc ctaggctacc atgggtgtat cttccttgac ctgcttcctt cagtccctct   900
gcctcccttt gcccaggcct ttctcagact gtattccatc ctggggtctt atcattcagc   960
```

```
tttgtttgaa tttattaatc accatgatac ctctccctcc ctttgtccac atgtaacttg   1020
ttcttggggc tctaccagat ggctgaagag taaatccttt ctacctctga aaaaaaaaaa   1080
aaaaaaaaaa aaaaaaa                                                   1097
```

<210> 85
<211> 1931
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1904)..(1904)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1914)..(1914)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1921)..(1921)
<223> n equals a,t,g, or c

<400> 85
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ggcacgagcg gcacgagcgg atcctcacac gactgtgatc cgattctttc cagcggcttc     60
tgcaaccaag cgggtcttac ccccggtcct ccgcgtctcc agtcctcgca cctggaaccc    120
caacgtcccc gagagtcccc gaatccccgc tcccaggcta cctaagagga tgagcggtgc    180
tccgacggcc ggggcagccc tgatgctctg cgccgccacc gccgtgctac tgagcgctca    240
gggcggaccc gtgcagtcca agtcgccgcg ctttgcgtcc tgggacgaga tgaatgtcct    300
ggcgcacgga ctcctgcagc tcggccaggg gctgcgcgaa cacgcggagc gcacccgcag    360
tcagctgagc gcgctggagc ggcgcctgag cgcgtgcggg tccgcctgtc agggaaccga    420
ggggtccacc gacctcccgt tagcccctga gagccgggtg gaccctgagg tccttcacag    480
cctgcagaca caactcaagg ctcagaacag caggatccag caactcttcc acaaggtggc    540
ccagcagcag cggcacctgg agaagcagca cctgcgaatt cagcatctgc aaagccagtt    600
tggcctcctg gaccacaagc acctagacca tgaggtggcc aagcctgccc gaagaaagag    660
gctgcccgag atggcccagc cagttgaccc ggctcacaat gtcagccgcc tgcaccggct    720
gcccagggat tgccaggagc tgttccaggt tggggagagg cagagtggac tatttgaaat    780
ccagcctcag gggtctccgc cattttttggt gaactgcaag atgacctcag atggaggctg    840
gacagtaatt cagaggcgcc acgatggctc agtggacttc aaccggccct gggaagccta    900
caaggcgggg tttggggatc cccacggcga gttctggctg ggtctggaga aggtgcatag    960
catcacgggg gaccgcaaca gccgcctggc cgtgcagctg cgggactggg atggcaacgc   1020
cgagttgctg cagttctccg tgcacctggg tggcgaggac acggcctata gcctgcagct   1080
cactgcaccc gtggccggcc agctgggcgc caccaccgtc ccacccagcg gcctctccgt   1140
acccttctcc acttgggacc aggatcacga cctccgcagg gacaagaact gcgccaagag   1200
cctctctgga ggctggtggt ttggcacctg cagccattcc aacctcaacg gccagtactt   1260
ccgctccatc ccacagcagc ggcagaagct taagaaggga atcttctgga agacctggcg   1320
gggccgctac tacccgctgc aggccaccac catgttgatc cagcccatgg cagcagaggc   1380
agcctcctag cgtcctggct gggcctggtc ccaggcccac gaaagacggt gactcttggc   1440
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aaacttgtgg acagagaaga agaccacgac tggagaagcc ccctttctga gtgcagggg g   1560
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gaccaagggg catggagctt cactccttgc tggccaggga gttggggact cagagggacc   1680
acttggggcc agccagactg gcctcaatgg cggactcagt cacattgact gacggggacc   1740
agggcttgtg tgggtcgaga gcgccctcat ggtgctggtg ctgttgtgtg taggtcccct   1800
ggggacacaa gcaggcgcca atggtatctg ggcggagctc acagagttct tggaataaaa   1860
gcaacctcag aacaaaaaaa aaaaaaaaaa aaaagggcgg ccgncctaaa aggntccaag   1920
nttacgttac g                                                        1931
```

<210> 86
<211> 1092
<212> DNA
<213> Homo sapiens

<400> 86
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aggccatgac ctccctcagg atgcctggct gcgctgggtg ctggctgggg cgctgtgtgc     60
```

```
cggtggctgg gcagtgaact acctcccgtt cttcctgatg gagaagacac tcttcctcta    120
ccactacctg cccgcactca ccttccaaat ccttctgctc cctgtggtcc tgcagcacat    180
cagcgaccac ctgtgcaggt cccagctcca gaggagcatc ttcagcgccc tggtggtggc    240
ctggtactcc tccgcgtgcc acgtgtccaa cacgctgcgc ccactcacct acggggacaa    300
gtcactctcg ccacatgaac tcaaggccct tcgctggaaa gacagctggg acatcttgat    360
ccgaaaacac tagaacaaga gtgtggcaaa gaacacccgt gctggggtcg ggacgaggtt    420
gaagggtctt ggtcaatgta cgtaatgagc agggtgggcc ccacgctggg aggacacggg    480
ctgggctgag cagggcctct agtggaacac atgggggtct cattgaaaag ctctctgatg    540
agcacctcct tttgtgcaaa gttaattttt tctcgacaat aaagatattc cgtgtcttca    600
cccctgaact aagacacacg gagtatttca gaaggccaag cgtaggagtc atcgacaacg    660
aaaaagccga gaacccaggg ccagcagttg gagccttcag cagaaccagg gcctggtcct    720
tgctaattgc tgcaggtgg agtttgatct ggcagacccg atcctccttc atgaacaccc    780
agcaacctga gcaagtcccg gccctgccct cagcgagccc ggcaggcgtc ccgggacagc    840
tcagtgttgg agggccacct gaaccacgag ccagggctgg ggcttgcatg tcattgtcta    900
tgacagcgtc aagactggcc cttggcaccg tgctgtgtgg aaaccctccc ctctgagact    960
ccactgagac gtggctgagt gaaatcttcc tcgtcagtgg tcaaggtgtg tcatccatac   1020
agctccatgc ctttgtcttt tttaaatgta attaaaaaag gaaccaactg gaaaaaaaaa   1080
aaaaaaaaa aa                                                        1092
```

```
<210> 87
<211> 578
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (576)..(576)
<223> n equals a,t,g, or c
```

```
<400> 87
gggacatctg ccggctggag cgggcagtgt gccgcgatga gccctctgcc ctggcccggg     60
cccttacctg gaggcaggca agggcacagg ctggagccat gctgctcttc gggctgtgct    120
gggggcccta cgtggccaca ctgctcctct cagtcctggc ctatgakcag cgcccgccac    180
tgsggcctgg gacactgttg tccctcctct ccctaggaag tgccagtgca gcggcagtgc    240
ccgtagccat ggggctgggc gatcagcgct acacagcccc ctggagggca gccgcccaaa    300
ggtgcctgca ggggctgtgg ggaagagcct cccgggacag tcccggcccc agcattgcct    360
accacccaag cagccaaagc agtgtcgacc tggacttgaa ctaaaggaag ggcctctgct    420
gactcctacc agagcatccg tccagctcag ccatccagcc tgtctctact gggcccccact    480
tctctggatc agagaccctg cctctgtttg accccgcact gactgaataa agctcctctg    540
gccgtttaaa aaaaaaaaaa aaaaaaaaaa ggggggncc                          578
```

```
<210> 88
<211> 699
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (661)..(661)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (694)..(694)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (696)..(696)
<223> n equals a,t,g, or c
```

```
<400> 88
tcgacccacg cgtccggaag cccccaacag ccacgctcac cactgctcgg acgaggccga     60
ccacagacat gagtgcaggt aagtggctcc tgctggtgat cttcagggat ttgggatgcg    120
gagtttccag gacgtctccg cacttgagga gtggagagga gggaaggatc tggagcctac    180
tcacagcctg ctcctgctgt tgcctcttcg tgatcttcta gtggttcttg gcgaaatcag    240
```

```
gaaaaggcag atggagggtt gtgtatggaa agggtggggga tggaatccgg agaaatggtt      300
tgcggtcttg gctctgcctg taacaacccg agtgaccttg ggcaagtccc tgtccctctc      360
tgggsctcag tttctccacc tgtatttgga ragggttgga atgggcactg aagtcctgtc      420
cagctctgac cttctgtgaa gtgcactgtt gagcagctct ggaagcttct gttccagcca      480
tagccacaca gaggagcagc aggcaggcat caggcccaaa ctgctgctct ctgatgggct      540
tggaccccat gaaagtgggg cctgctggat gcatttcctg ggattctgtg gaagctgatc      600
aggttgctgg ggcaagtgga ggcaggatag aagtgaaggg ctgtgggatg gagaacctca      660
naagactcca tctggggtcc gggaaaggac agananggt                             699
```

<210> 89
<211> 1126
<212> DNA
<213> Homo sapiens

<400> 89
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ggcasagcca accctgagga ctcagtgtgc atcctggaag gcttctctgt gactgcactt       60
agcattcttc agcacctggt gtgccacagc ggagcagttc gtctccctat tactgtcagg      120
agtggggggca gattctgctg ctggggaagg aaacaggagc ctggttcaca gyttagtgat      180
ggagatatga cctcagccct aaggggggtt gctgatgacc aaggacagca cccactgttg      240
aagatgcttc ttcacctgtt ggctttctct tctgcagcaa caggtcacct tcaagccagt      300
gtcctgaccc agtgccttaa ggttttggtg aaattagccg aaaacacttc ctgtgatttc      360
ttgcccaggt tccagtgtgt gttccaagtg ctgccaaagt gcctcagccc agagacaccc      420
ctgcctagcg tgctgctggc tgttgagctc ctctccctgc tggcggacca cgaccagctg      480
gcacctcagc tctgttccca ctcagaaggc tgcctcctgc tgctgctgta catgtacatc      540
acatcacggc ctgacagagt ggccttggag acacaatggc tccagctgga acaagaggtg      600
gtgtggctcc tggctaagct tggtgtgcaa gagccccttg cccccagtca ctggctccaa      660
ctgccagtgt aatgtggagg tggtcagagc gctcacggtg atgttgcaca gacagtggct      720
gacagtgcgg agggcagggg gacccccaag gaccgaccag cagaggcgga cagtgcgctg      780
tctgcgggac acggtgctgc tgctgcacgg cctatcgcag aaggacaagc tcttcatgat      840
gcactgcgtg gaggtcctgc atcagtttga ccaggtgatg ccgggggtca gcatgctcat      900
ccgagggctt cctgatgtga cggactgtga agaggcagcc ctggatgacc tctgtgccgc      960
ggaaaccgat gtggaagacc ccgaggtgga gtgtggctga ggccctgagt gtccagccac     1020
atggtggcac cagcaccact cctttcctta ccacatcaac tgattaaagc agtgaccagc     1080
aggaactgcc cagagaactg gaaaaaaaaa aaaaaaaaa ctcgag                     1126
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<210> 90
<211> 1037
<212> DNA
<213> Homo sapiens

<400> 90
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agggttgatg ggttatggtc aggagtccca gctgggccca ccacctcctc aggaaggcgg       60
gtgaggttgg tgtgagactg acggtgcctc ctcatgtccc cttggagcgc cccaccccac      120
atctcccggc ctcgggtcct tgcctggccc agcatgagag gtgcttcata ggaacggagg      180
gaggacatgt ygggacagct cgatgctcgg cctgctgctg ctctgcaccc ccagggcctg      240
gctcaccctc tctggacctg tctgcttcca aggaagggga ccctctgagg tcccacagag      300
gccaccccag ytgtgggtcg tgagcatctc tgtcttgcag ggacagcatc gtggccgagc      360
tggaccgaga gatgagcagg agcgtggacg tgaccaacac camcttcctg ctcatggccg      420
cctccatcta tctccacgac cagaacccgg atgccgccct gcgtgcgctg caccaggggg      480
acagcctgga gtggtgagtg gcctccctgc tctgggccag cccagggagg caagtgcccc      540
ctgccacatc tccaggctgc gcacggcctc gctggctgtc gtcatgggag cagagaaagg      600
tggtgctgaa atgaggccct ggcctgctgt ccaggctcca gctcccctgc ccagtgtggg      660
aggcactccc atctgcgcac caggctgcgg atccaaggac acggtgccca rgctgcaacc      720
ctctgttccc aagggcagag cagaaagcgg ctttgtctct gctcggtttc tgtgtcccca      780
cccccacga agccttctgt gtctcggccc tgggcccagt ctctcaggcc tccccgggcc      840
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ggtgcccccc tccaccctag gatgtgactc cgggccatgt ccagggcact ggtcacagaa      960
agtgtgtcag ttcttccccg tgagctgtcc ctgcagtgcc tgccttccac tgtgagttgc     1020
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<210> 91
<211> 1316
<212> DNA
<213> Homo sapiens

<400> 91

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ggcacgaggc ctggcgcgct gcggcgtcgc tcacccgctc ccgaggaagg gcagtgggcc      60
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ccggtccctg ctcttctggt ccctggtcta ctgctactgc gggctctgcg cctccatcca     180
cctgctcaaa cttttgtgga gcctcggcaa ggggccggcg cagaccttcc ggcggcccgc     240
ccgggagcac cctcccgcgt gcctgagcga ccccctcctg ggcacccact gctacgtgcg     300
gatcaaggat tcagggttaa gatttcacta tgttgctgct ggagaaagag gcaaaccact     360
tatgctgctg cttcatggat ttccagaatt ctggtattct tggcgttacc aactgagaga     420
atttaaaagt gaatatcgag ttgtagcact ggatttgaga ggttatggag aaacagatgc     480
tcccattcat cgacagaatt ataaattgga ttgtctaatt acagatataa aggatatttt     540
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ttggctaatt gccatctgtt atcctgaaat ggtgatgaag cttattgtta ttaacttccc     660
tcatccaaat gtatttacag aatatatttt acgacaccct gctcagctgt tgaaatccag     720
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caaggttttg aaacatctgt ttaccagtca cagcactggc attggaagaa aaggatgcca     840
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tggcccaatt aaccattacc gaaatatctt cagctgcctg cctctcaaac atcacatggt     960
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tcattggctt cagcaagacc aacctgacat agtgaacaaa ttgatatgga catttctaaa    1140
agaagaaaca agaaaaaaag attgactttt ctttatcttc tatgaagggt ctgtaatgaa    1200
atctctaaat aattttttaaa aattgttcat caacttcttt atgtttatt agaaaaaaac    1260
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<210> 92
<211> 1021
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (971)..(971)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1004)..(1004)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1008)..(1008)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1010)..(1010)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1018)..(1018)
<223> n equals a,t,g, or c

<400> 92
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tcttgaataa tacaaatagg taagacaatt ttacaaaaat tgtgctatag aataggatat     120
ttgtgacttt ttagatgaaa tattagagct accccaccca gccacagata gcactgtaac     180
actttcttaa tagagtatag gttcaaatta taaagtccac acactggcta aaaagttcaa     240
gttcagagtt tcaatcaatt ttcattgtaa ggatgaaact gagttttact caacttgtgt     300
cttttttaaga gaatgggcca cctcccacac atcctttctc ttggactttt tttaacactt     360
ctaatgttct gtatcacgaa atcagatggc caaaacaaaa tctacaggtg ctttaaaaaa     420
gcaagtcccc aagtgattgt tacccatacc aaaatgagaa ttgctgctat aatctgttct     480
tactggamtg gccakgccaa tcttgggact aggattaaat tgcaattaaa ttckgcagtg     540
tacaaaattt ttgtcagtct gyctagaaaa agaaagagaa ctctttcatg gtagagcagt     600
tactgtgctc acgttgcttt ttctaaaaac caacctactt tcaaacaaag aatgaggaaa     660
tttgcagtaa attttaaata tgagtcacgg aaatattaag ataatagcat gtgtgggcaa     720
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```
taataagtat gccaagaaat aaagagtaat atacaaaaca atcaaacatt attacatttg      780
gctacgaggt tcctaataaa cagggcaaaa taaatagtga aatataataa aatcgttatc      840
atctgataaa aggctgcatg gtactttttcc caaacgtaat ggatgacttc aacacatttt      900
cttattaaat atttcaaatt gtttcttcat gtgaaaactg tcttattaat tgtaaaaagg      960
atgtaacttg nataggcatg ctcaacaggg gtaagagtaa ttcngtangn gcccccctnga     1020
t                                                                     1021
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<210> 93
<211> 1260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (32)..(32)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (314)..(314)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (356)..(356)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (590)..(590)
<223> n equals a,t,g, or c

<400> 93
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tttttttttt ttttttttta aatttcacct gtttcctttta ttatgtggct acttgaaaat     120
tttaaaatta catatgtagc tcacactata aaacacagat tagaaatatt gtatagcact      180
gacctagaaa cctccattta ggtaaaacat cttaacccct ttggaagcaa aatatgttaa      240
ataacagcat aaactcccac caagaaaatc ctcaccttcc tcctttcaac acatttatta      300
tatacagctg tcantgcatt gtcaatctgc caaatggctc tatgttccaa cagggntgga      360
gtagtcccct gctcacacca gccttcacaa tacttcccat gtcttccctg ttaacctctc      420
tccacccagc acccaggctc ccaactctcc tggctgcctc cagccctcag ctggcaccac      480
tgacatgctg tttccagtac ccttttcttc tttctgcatc ctccctgggg gacatacatc      540
cctcatctcg tgacttcagc tgtcacataa attcaaatgt ttcagaactn tattttttac      600
ctcctacatc tgtcagttta aatgtcagga tatttactt tcagtaaagc cctaaaaaga       660
caaatctatg tacttttaaa gaataaaaga aatgactggc tgcagctcaa acctacaact      720
gcttgcgaaa ctctacaatg tctggcagat gctagaaaga aggggatcaa gacagagcac      780
acttggcgtg gtatgctatc tatagaaaat gttaaaataa aattaagtaa tctaggtttc      840
ctctctttat tttctacatc tactctctga agagggcaat aaataaggaa atgtcccaaa      900
gagggacaaa ttaagtccca aaataacaca aaattgggca atcccagtc atgaagaaag       960
aacagaggtt cttaaattgg gacacacaga ggcaggtctg caggtctagg aatctctgaa     1020
catatgtgca aaattctggg tatgtgtgca tatgttatat aacaaagcga agggtccata     1080
tagctttcat cgcatttcaa agggtctagc actgaaataa ggactactgc tatgtgactt     1140
aaaaaatgaa actcaggctg ggcgcagtgc tcacgcctgt aatcccagca ctttgggagg     1200
ccgaggcaag cagatcacct gagacgagga gtttgagacc cgcctggccg gacgcgtggg     1260
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<210> 94
<211> 990
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)..(4)
<223> n equals a,t,g, or c

<220>

<221> misc_feature
<222> (916)..(916)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (958)..(958)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (971)..(971)
<223> n equals a,t,g, or c

<400> 94
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cccatctact tggttgtccc cagaatgggt tggcttggga gaacttgcct tgctcactcc     120
catttagact ttattagtgg agccctcctc ttgacttttg cctatttcct tgtctttcag     180
gtgtgccctg tgattaataa atggctctac aacctggacc agcatgtggt taaagagttg     240
attagtaagt gctggaggtg ggaagggaca ggaacactcc agaagaaagc tcagaaccct     300
ccctcaccct ttgtatttca tttcccctta cctcactctg gcacttctcc tagaccaaaa     360
atctctttcc tgctgaagta gaatggtccc taataataac aaccttaata ataaactcag     420
ctgacattaa ctgagggagc ccagtgtgcc aacatgaagc actgtgcctg cactagcaat     480
tgaacgtgca cctttagcta aggacgtgct ggtttcaatt ctattcttgc tcccaagcct     540
acagcagctg agatatgaat ggaaacttct ccagggggaga aaatctgccc aattctgcct     600
ttgtcctccc ctaaatttgt atgagttaaa tgatgggcag aaaattggtc tgttttcagc     660
ccagacaaac actgcctcct ttcagtagtc gctacctcaa gcatccaaag ttttcatatc     720
tgccagaact caaagcaaaa aatgcaagat tgaatctcag cagctcaggc ccccagcagg     780
acttcaaact tccaccacca aaaaaaaaaa aaaaaaaaat gctgaattga aaggtatatg     840
ccttcattca ctgaatattc actcgtcctg ccaagtgcca gatgccarag tttctaaaat     900
tcccccaaag gggggnccgg gtacccaatt ccccctatt agtgaagtcc tatttacnaa     960
ttcccttggg nccgtccgtt tttaacaacc                                      990
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<210> 95
<211> 1710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1702)..(1702)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1704)..(1704)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1709)..(1710)
<223> n equals a,t,g, or c

<400> 95
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gaagcttaaa agacgggatg tggggtggga gtgtgtttct taagccgaag ctgttgcagg     180
ctggggggatt tttgcatttt ctttttgttt tgtttttgac tgcagattct gtacatctgt     240
ctgtggggagg agagttgcta ctcaggacag gatttaagag acacattcca gtgacctta     300
agaatctgca tggcgggagg tccttctcca ggagtgtggg ttggtccact ctgggaccca     360
ccacactaag aaggggggaga tgataaaata acattaaagg aagaatggcc tccagcctgc     420
aggttttgtt ggaaagaaat aaaaagggag tcattaagac cataaattca gattgaggcc     480
tcttgaaaag gttgatgtgg gctagcaacc tgcctgtcga aacagtcctt ggttcatcag     540
cagtgtggga aggcagccaa ggctcctgca gattcctggc atcgaccttg gaaagcctct     600
gcgatacttg tgtgtacgaa tacagcagag gacagggagg tccttgttct gtggtctctg     660
tttagtgact gaaacttaaa cccaaaggca agcccagatt gtctggccgt tcatccccat     720
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gctttgatag gggttaggag gaaccctttc cgtatgaaag acaggcccta ytagggytta    780
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gagaagcata tggcagcaaa cagaaatgaa aaccatatgt cccagcaagg ggaaaagcag    960
tcatttccag attataaaaa tcaatgaagt actctccacc taggtcagct gaaattcgag   1020
ccctcacagt caggcctgtc agagaagtta agcagaaaca tctcggggggg acttctaaaa   1080
tttagtgaag acaaggcctt gcaactccaa agaaactttt tttcccccccc ttgaaacagg   1140
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agctcctggg ctcaagcact atccccacct caacctcctt agtagctggg actacaggtg   1260
cacaccacca tgcccagcta accacagaaa ctttcatctc ttcattttt ctttgggcac   1320
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gccggctgca gtcatcgccc ccagatcagg ctggtacagg atgccttaag gtgatgagag   1440
gtgagggtgc atgaagaata atgagcacag ggaagagaga agcaggacaa agtagcagat   1500
aaaatgccgg caaagcacag atgaatgtct tcaagaagct cttgtatttc tctgcacagt   1560
gtaaatatcc ttgctatttc aggatggcgg ctggcctgct cagtaacata catgttccaa   1620
ataaagattt tgcatgaaag taaaaaaaaa aaaaagggc ggccgctcta gaggatccaa   1680
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<210> 96
<211> 781
<212> DNA
<213> Homo sapiens

<400> 96
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taactccatc taccagtgcc ctgagcacag tcaactgaca actctgggcg tggatgggaa    180
ggagttccca gaggtccact tgggccagtg gtactttatc gcaggggcag ctcccaccaa    240
ggaggagttg gcaactttg accctgtgga caacattgtc ttcaatatgg ctgctggctc    300
tgccccgatg cagctccacc ttcgtgctac catccgcatg aaagatgggc tctgtgtgcc    360
ccggaaatgg atctaccacc tgactgaagg gagcacagat ctcagaactg aaggccgccc    420
tgacatgaag actgagctct tttccagctc atgcccaggt ggaatcatgc tgaatgagac    480
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tgtggaggaa ttcaagtccc tgacttcctg cctggactcc aaagccttct tattgactcc    600
taggaatcaa gaggcctgtg agctgtccaa taactgacct gtaacttcat ctaagtcccc    660
agatgggtac aatgggagct gagttgttgg agggagaagc tggagacttc cagctccagc    720
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g                                                                     781


<210> 97
<211> 1113
<212> DNA
<213> Homo sapiens

<400> 97
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cttgtatgat catagtctcc tgtcatcggt ttataagatt ctccaaattc agaatgcgca    180
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tgaacatgaa tgaaaaatat tgcatcatat attggtgagg agaaagtgga gtaaagaaaa    300
atctccatct atacacaata cagctttta aatgcagcgg actttcaaat atttgcattt    360
ctacattata cgttttgttt caacttacgc atttattgtt ttctttcctt tttcttcctc    420
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tgcaaatgca agagaaattt cagtgtatct gctatgattt gaatgtgtcc cccaacgttc    540
atgtgttggca aatttgattc ccaatgcagt ggtgttggga agtgaggcct aatggaaggt    600
gtttgggtca tggggggcacc gccttcataa atggattaat gccattattg tgggaatggg    660
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tttcccaggc tccagaacta aaaagaatga atttcttttc tttttaaatt acccagtctg    840
tggtaaattt atagtagcac aaaacagatt aagacaatat gtctttcaga gtgtcttagct    900
tatttcattg gataactgta agaagagttt actgctttc ttttttttgaa attaagaatt    960
tagctgaatg ctgttgctca cacctgtaat tcccgcactt tgggaggcgg aggcgggctg   1020
atcacctgag gtcaggagtt tgagaccagc ctggccaacg tggtgaaact ctgcctctac   1080
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<210> 98
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<211> 1723
<212> DNA
<213> Homo sapiens

<400> 98

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ccggccccgc ctctgaggtt cgcgtccccc cacagcccgc aggccccgga ccccggcttc     180
caggagcgct tcttccagca gcgtctggac cacttcaact tcgagcgctt cggcaacaag     240
accttcccyc agcgcttcct ggtgtcggac aggttctggg tccggggcga ggggcccatc     300
ttcttctaca ctgggaacga gggcgacgtg tgggccttcg ccaacaactc gggcttcgtc     360
gcggagctgg cggccgagcg gggggctcta ctggtcttcg cggagcaccg ctactacggg     420
aagtcgctgc cgttcggtgc gcagtccacg cagcgcgggc acacggagct gctgacggtg     480
gagcaggccc tggccgactt cgcagagctg ctccgcgcgc tacgacgcga cctcggggcc     540
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tgtgctgacc ccactggctg cggcaccggc cccgacgcca gggcctggga ctaccaggcc    1140
tgcaccgaga tcaacctgac cttcgccagc aacaatgtga ccgatatgtt ccccgacctg    1200
cccttcactg acgagctccg ccagcggtac tgcctggaca cctgggggcgt gtggccccgg    1260
cccgactggc tgctgaccag cttctggggg ggtgatctya gagccgccag caacatcatc    1320
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tcagtcatcg ccgtcaccat ccaggggggga gcgcaccacc tcgacctcag agcctcccac    1440
ccagaagatc ctgcttccgt ggttgaggcg cggaagctga aggccaccat catcggcgag    1500
tgggtaaagg cagccaggcg tgagcagcag ccagctctgc gtggggggcc cagactcagc    1560
ctctgagcac aggactggag gggtctcaag gctcctcatg gagtgggggc ttcactcaag    1620
cagctggcgg cagagggaag gggctgaata aacgcctgga ggcctggcma aaaaaaaaa    1680
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgc                       1723
```

<210> 99
<211> 2087
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (56)..(56)
<223> n equals a,t,g, or c

<400> 99

```
tcgacccacg cgtccgtggg gccgagcgcc gctgggtagg cggaagtagc cgcagnatgg      60
cggcggctat gccgcttgct ctgctcgtcc tgttgctcct gggggcccggc ggctggtgcc     120
ttgcagaacc cccacgcgac agcctgcggg aggaacttgt catcaccccg ctgccttccg     180
gggacgtagc cgccacattc cagttccgca cgcgctggga ttcggagctt cagcgggaag     240
gagtgtccca ttacaggctc tttcccaaag ccctgggggca gctgatctcc aagtattctc     300
tacgggagct gcacctgtca ttcacacaag gcttttggag acccgatac tggggggccac     360
ccttcctgca ggccccatca gacactgacc actactttct gcgctatgct gtgctgccgc     420
gggaggtggt ctgcaccgaa aacctcaccc cctggaagaa gctcttgccc tgtagttcca     480
aggcaggcct ctctgtgctg ctgaaggcag atcgcttgtt ccacaccagc taccactccc     540
aggcagtgca tatccgccat gtttgcagaa atgcacgctg tactagcatc tcctgggagc     600
tgaggcagac cctgtcagtt gtatttgatg ccttcatcac ggggcaggga aagaaagact     660
ggtccctctt ccggatgttc tcccgaaccc tcacggagcc ctgccccctg gcttcagaga     720
gccgagtcta tgtggacatc accacctaca accaggacaa cgagacatta gaggtgcacc     780
cacccccgac cactacatat caggacgtca tcctaggcac tcggaagacc tatgccatct     840
atgacttgct tgacaccgcc atgatcaaca actctcgaaa cctcaacatc cagctcaagt     900
ggaagagacc cccagagaat gaggcccccc cagtgccctt cctgcatgcc cagcggtacg     960
tgagtggcta tgggctgcag aagggggagc tgagcacact gctgtacaac acccacccat    1020
accgggcctt cccggtgctg ctgctggaca ccgtaccctg gtatctgcgg ctgtatgtgc    1080
acaccctcac catcacctcc aagggcaagg agaacaaacc aagttacatc cactaccagc    1140
ctgcccagga ccggctgcaa ccccacctcc tggagatgct gattcagctg ccggccaact    1200
```

```
cagtcaccaa ggtttccatc cagtttgagc gggcgctgct gaagtggacc gagtacacac    1260
cagatcctaa ccatggcttc tatgtcagcc catctgtcct cagcgccctt gtgcccagca    1320
tggtagcagc caagccagtg gactgggaag agagtcccct cttcaacagc ctgttcccag    1380
tctctgatgg ctctaactac tttgtgcggc tctacacgga gccgctgctg gtgaacctgc    1440
cgacaccgga cttcagcatg ccctacaacg tgatctgcct cacgtgcact gtggtggccg    1500
tgtgctacgg ctccttctac aatctcctca cccgaacctt ccacatcgag gagccccgca    1560
caggtggcct ggccaagcgg ctggccaacc ttatccggcg cgcccgaggt gtcccccccac    1620
tctgattctt gccctttcca gcagctgcag ctgccgtttc tctctgggga ggggagccca    1680
agggctgttt ctgccacttg ctctcctcag agttggcttt tgaaccaaag tgccctggac    1740
caggtcaggg cctacagctg tgttgtccag tacaggagcc acgagccaaa tgtggcattt    1800
gaatttgaat taacttagaa attcatttcc tcacctgtag tggccacctc tatattgagg    1860
tgctcaataa gcaaaagtgg tcggtggctg ctgtattgga cagcacagaa aaagatttcc    1920
atcaccacag aaaggtcggc tggcagcact ggccaaggtg atggggtgtg ctacacagtg    1980
tatgtcactg tgtagtggat ggagtttact gtttgtggaa taaaaacggc tgtttccgtg    2040
rwwaaaaaaa aaaaaaaaaa gggcggccgc tctagaggat ccctcga              2087
```

<210> 100
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (663)..(663)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (702)..(702)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (705)..(705)
<223> n equals a,t,g, or c

<400> 100
```
cggcacgagc ttttttctggt attccaataa attgtaggtt cagttttttt tatgaagtcc      60
catatttctt ggaggctttg ttcattgctt ttaattcttt tttctctaat cttgtctgca     120
tgctttatttt cggcaaggtg gtcttcaaac tctgatatct tttttttctgc ttggtcgatt    180
cagctattga tacttgtgta tgcttcatga agtccccatg ctgtgttttt cagctccatc      240
aggtcttttta tgttcctctc taaactggct attctactta gcaattcctc taacctttttg    300
tcaaggttct tggcttcttt gtgttgggtt aggacatgat cctttagctc agcatagttt       360
ttcattaccc atcttctgaa gcctacttct gacgttgcga tcatttggag gagaagaggc      420
actctggtct tttgggtttt caaaattttt tcattgtttc tttctcatct ttgtgcattt      480
gtctagtttc ggtctttgag gccgctgacc ctgggatggg gttttttctgg gggcttttttg    540
ttgttcttga tgctgtttctt gttgctttct gcttgtttgt ttttcttttca atggtcgggt    600
ccctcttgtg tagggctgct gaagtttgct ggggttcac ttcaggtcct attcatctga       660
ttnactcgca tgcctggaga tgtcacttaa gaagcccgga tnacngcata gacaggtgcc       720
tgctccttct tctgtgatct ctgacctcga g                                      751
```

<210> 101
<211> 1223
<212> DNA
<213> Homo sapiens

<400> 101
```
gctgctccgt tttttccccca tctttgtggt tttatctacc tttggtcttt gatgatggtg     60
atgtacagat ggggttttgg tgtggatgtc ctttctgttt gttagttttc cttctaacag     120
tcaggacccg cagcttcarg tctgttggag tttgctggag tccactcca gaccctctttt     180
gcctgggtat cagcagcaga agctgcagaa cagcggatat tggtgaacag cagatgttgc     240
tgcctgatcg ttcctctgga agttttgtct cggagtaccc agccatgtga ggtgtcagtc     300
taccctact gggggatgcc tcccagttag gctacttggg agtcagggac gcacttgagg      360
aggcactctg tctgttctca gatgtccagc tgtgtgctgg tagaaccagt gctctyttca     420
aggctktcag acagggacgt ttaagtctgc agaggattct gctgccttttt gtttggctgt     480
gccctgcccc ccagaggtgg agtctacaga ggcaggcagg cctccttgaa ttgcggtggg     540
```

```
ctccaccgag ttcgagtttc ctggccgctt tgtttacccc ctcaagcctc ggcaatggtg      600
ggcgcccctc ccccagcctc actgccggct tgcagtttga tctcagactg ctgtgctagc      660
aatgaktrag gctctgtggg tgtagraccc tctgagccag gcatgggata taatctcctg      720
gtgtgcgatt tgctaagacc cattggaaaa gcgtagtatt agggtgggaa tgacccaatt      780
ttccaggtgc cgtctgtcac ccctttcttt gactaggaaa gggaattccc tgacccgttg      840
tgcttcccgg gtgaggcaat gcctcgccct gcttcagctc aagcttggtg cgctgcaccc      900
actgtcttgc acccactttc caacactccc tagtgagatg aacccggtac ctcagttgga      960
aatgcagaaa tcacacgtct tctgcgtcct cacgctggga gctgtagact ggagctgttc     1020
ctattcggcc atcttggctc cacctgtcga gatattttac attaactttc tatgacatac     1080
ttatagcaaa acttattttt tcatgcagaa tagtctatat tctatattta ttgtaaagca     1140
tataccgtac atggtgacta gtcaccatgc tgtacaataa attttctgaa cttaataaaa     1200
aaaaaawaaa aaagggcggc cgc                                             1223
```

<210> 102
<211> 1010
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (607)..(607)
<223> n equals a,t,g, or c

<400> 102
```
ggttacttcc aagttctgcc aactgtgaat aaagttgcta taaacatcta tgtacaggtt       60
ttttttgtgt gtggacctaa gttttcaact cctttgggtg ataccaagga gcacagtcac      120
tgggacatat ggtaaggata tatttagttt ggcaggaaac caccatactg tcttccaaag      180
tagctgtacc attttgcata cccaccagca ctgaatgaga gttcctgttg ctccacattc      240
ttgtcagcat ttgatgttgt cagtgttctg aatttaggta gtcatgatag gtgtgtaatg      300
gtatctcact attattttaa tttgcctttc tctgatgatg tatgatgttg cagatcttct      360
catatgctta tgtgacatct gtatatctgg tgaaatgtct gctaaggtct tascctattt      420
tttaatargg atggttgttt tcccattgtt gagttttaag agttccttat atattttgga      480
tatttaaata tactacaaat aaacagtcct ttaacagata aatgttttgc aaatattttc      540
tcttagtctg tggcttctgt ctttattccc ttgaaggtgt ctgtcacaaa gcagtttatc      600
ttttttnctt tttttttttt tttgagacgt agtcttgctc cagcctgggt ggcagagcga      660
rctacgtctc aagaaacaaa acaaaacaaa aaaacacctc agttgcgcgg caaggtkgct      720
cacgcctgtg atcccatcac tttgggaggt cggaggtggg aggtgggaga atcgcttgag      780
gccaggagtc catcctaggt ctagcttgac cctatctcaa caacaaaaaa ataacaatta      840
gcccaccgtg gtagtgcatg tctgtagtcc tagctactgg ggaggctgag gtgagaggat      900
tgcttgagcc catgagtttg aggttacagt gggctataat tacaccactg cactccagtc      960
tgagtgacag agcaagaccg tgtctcaaaa aaaaaaaaaa aaaactcgag               1010
```

<210> 103
<211> 1986
<212> DNA
<213> Homo sapiens

<400> 103
```
ggcacgaggg aaaactgttt tatttgcatt tgaagaagct attggataca tgtgctgccc       60
ttttgttctg gacaaagatg gagtcagtgc cgctgtcata agtgcagagt tggctagctt      120
cctagcaacc aagaatttgt ctttgtctca gcaactaaag gccatttatg tggagtatgg      180
ctaccatatt actaaagctt cctattttat ctgccatgat caagaaacca ttaagaaatt      240
atttgaaaac ctcagaaact acgatggaaa aaataattat ccaaaagctt gtggcaaatt      300
tgaaatttct gccattaggg accttacaac tggctatgat gatagccaac ctgataaaaa      360
agctgttctt cccactagta aaagcagcca aatgatcacc ttcacctttg ctaatggagg      420
cgtggccacc atgcgcacca gtgggacaga gcccaaaatc aagtactatg cagagctgtg      480
tgccccacct gggaacagtg atcctgagca gctgaagaag gaactgaatg aactgatcag      540
tgctattgaa gaacattttt tccagccaca gaagtacaat ctgcagccaa aagcagacta      600
aaatagtcca gccttgggta tacttgcatt tacctacaat taagctgggt ttaacttgtt      660
aagcaatatt tttaagggcc aaatgattca aaacatcaca ggtatttatg tgttttacaa      720
agacctacat tcctcattgt ttcatgtttg acctttaagg tgaaaaaaga aaatggccaa      780
acccaacaaa ctaacattcc tactaaaaag ttgagcttgg acatattttg aatttttgta      840
agtgaagatt tttaaactga ctaacttaaa aaaatagatt gtaattgatg tgccttaatt      900
tgcataaatc ataaatgtat gtcctctctg taattgtttt aatgtgtgct tgaaatatcc      960
agaaaaccta tggagttagt aaattctggg ctgtcatatg taggatagcc actttttagg     1020
tatatgtaca tttatatttc tatcaattcc ttagaaagta aaataaatga atagatcaaa     1080
```

```
tgttgtgttc atgtttgggg aaaatataat ttgcagaaac ctatgaagta gagcaaagat    1140
gctttaaaaa gataagtttt tttgaactaa attttttta gttctaataa tgcacatagg    1200
atattagtac atcgtacacg tgctaggaaa aaacagcttc agtgtctttg tttaatgtgt    1260
tgaaactcat ctttttaaat cttgaaaaac caattgttta cttgaaactt gaaagtagca    1320
tatttttctg tttttttggtt gtttgttcat ttgtattagc acaatttaat gtaattcctg    1380
gtttggaggc agcaagacct atgagcaaga actatttact tgaccctcgt ttttttctct    1440
tgttcttgtg tggtctgaaa tctaaaacta gactttatta tgatagattt cctataagcc    1500
aatttctaat aacaaataga tttattattt aatctgtacc ttctatcttc tcataattcg    1560
tggtcttaca gccttccaaa ataactccag ttgggcaccc atgagctagg atcaaacttt    1620
ctttatatac tttatatatt ttacattatt tctgattttt aaagcaaatg attgccatta    1680
tgattacact caacctaaat agttatgaac agtttcagaa caatgaaaaa ttacaatact    1740
atgtgatagt attgtaacta ttttctatt ttagtcatat gtcgcttata tcctaccaga    1800
actcttaaat ctataatatt cgatatattc tacaaactgc tttattgtag aagccatatt    1860
tatgtttatt ttataatgtt ttctagtgtc aaactgtact gtggagaaaa gaaatgttag    1920
atctgtgttc tgtctgcatt ttttttgagt acataccctt caccctcaaa aaaaaaaaaa    1980
aaaaaa                                                              1986
```

<210> 104
<211> 1321
<212> DNA
<213> Homo sapiens

<400> 104
```
ggcacgagcc caggagtgca gtggtatgat catagttcac cgtagcctca aactcgtggg      60
ctcaagtgat cctccagcct taacctcccg aatagcctgg cttataggtg cacgccacac     120
acctgactgc tcagtatgta aatttttact atgcctaagg ttgaccacct tttaatatgt     180
ttaggagcca tttgtatttc cttttgtttc ccatattgtt ttgttcctat ccatttttct     240
actatatcgt tgatatgtt tttatttgtt agggatatga accctttgac agtaatgagt     300
tgcaaatatt ttctttccaa tttgtcatct gtctttgct tatgatggct ttgtcatgag     360
ttttaaaaaa tttttatgta gtctgaatta ccagtttttt tagtggtttc tggatttttga     420
gtcataatta gaatgtattt ctcaatccag agcaatagag taattcacct aaattctaca     480
tctaaatttt gaacctctga agcatattct ggcataagat ataagttatg gatctaacct     540
aatttttttcc gcaggtgatt aacccagttg ttccaatatt atttattgaa ctgtttgttt     600
tttcctgacg agtttgagag gctacattga tcttatctta gaatccgtca tatgtattta     660
gctgtgtatc tgcttctgtt tctctgtatc tgtttctatt tcattgctct atttagtcat     720
gcactagtac cacattgttt taattaccca ggctttagtt ttaatctagt gcattggtcc     780
tccctcattc ctcccctgcc cacctttttt tttttaaca gttttctaa ctgttcttat     840
ttttccatat gagctttaaa aaattcttaa catatagagc atactaaaac tgtccaactc     900
aagttctctc ccaaggggttg cacttttaac cacttatttt gtcactgttc ttttgatact     960
ttacctgata aagatacact ttttactact tttaaattat tacagtgttc tatttggcag    1020
tgcccaaaca ggtgatggca gatagaggca ggatgcaatg cctgtgtgga aagaatgtca    1080
tctcagtgct tctattttaa gatagtctct aggaatgatt taaggactgt tctcatgtaa    1140
aatccctatt tcttttttta ttccattacg aattatttgc ccaaaagttg gatatctgtc    1200
aaagattcat aagacaagag ggagagaccc ttaaataagt actaaacttg taaaatcaat    1260
atgtggataa aagtgcaagt acaagaagtt actttggaaa aaaaaaaaaa aaaaaaaaaa    1320
a                                                                    1321
```

<210> 105
<211> 944
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (889)..(889)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (896)..(896)
<223> n equals a,t,g, or c

<400> 105
```
gaaaaagtac aagcccctct caaatggttc aagtttcaaa tattagaccc acccatggca      60
aagacagatt ttagtataat actcctaaaa ctacactgtc tttttttttt ttctgtcata     120
agtgtgcatt gtgctcagtc atttatttca gtgacccaaa cagagcccag tccagctgtt     180
```

```
tgtattttcc ctgcagtggg aagtggacta gggccatgtg actaagaaag ccagcctggg    240
ggctgtcttt tcacctacag atgtttaat gtgcttaaca ttatccaata ctagcaaccg    300
agatagtcta aataccacag caggatctga ttagctttt cagatcactg cctttatttg    360
ctgtttgcaa aaaagcttaa tccagtgcta gagatcaggc ttcctgctga gccctggggt    420
agtttctctc attctttgtg ttcacagtgg caggcgttag tgagcagatt cctcctcctc    480
ctaaattaaa gctgtaaagt agtaactgta gtagcaaggg ataaagagaa ggaagaaaac    540
ccaagggaaa aaagaagact gtctattcat accaagtagt ttccttgata tacacaaaag    600
aaagagtttc taatatgaat tcataaatac tgacctcagt gtctcttcta ctcagtgcac    660
agctattaag ttttattagg tttcagttgt aactactttg tgtggatata tgttacgttt    720
ttcatattta tcctactcaa tcaatctcag ttttaccaga agaattacat ttattagcca    780
taacagtggc ccttctctta ttcttttcag ggctgatatc ttttttattc atgagatttc    840
aaaaagaact atcaccacca ctaacaaaaa aaaaaaaaaa aaaaaaagna cggccnctct    900
agaggatccc tcgaggggcc caagcttacg cgtgcatggg acgt                     944
```

<210> 106
<211> 1172
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (904)..(904)
<223> n equals a,t,g, or c

<400> 106
```
ggcgggccga ggactccagc gtgcccaggt ctggcatcct gcacttgctg ccctctgaca     60
cctgggaaga tggccggccc gtggaccttc acccttctct gtggtttgct ggcagccacc    120
ttgatccaag ccaccctcag tcccactgca gttctcatcc tcggcccaaa agtcatcaaa    180
gaaaagctga cacaggagct gaaggaccac aacgccacca gcatcctgca gcagctgccg    240
ctgctcagtg ccatgcggga aaagccagcc ggagcatccc tgtgctgggc agcctggtga    300
acaccgtcct gaagcacrtc atctggctga aggtcatcac agytaacatc ctccagctgc    360
aggtgaagcc ctcggccaat gamcaggagc tgctagtcaa gatccccctg gacatggtgg    420
ctggattcaa cacgcccctg gtcaagacca tcgtggagtt ccacatgacg actgaggccc    480
aagccaccat ccgcatggac accagtgcaa gtggccccac ccgcctggtc ctcagtgact    540
gtgccaccag ccatgggagc ctgcgcatcc aactgctgca taagctctcc ttcctggtga    600
acgccttagc taagcaggtc atgaacctcc tagtgccatc catgccaagg tggcccaact    660
gatcgtgctg gaagtgtttc cctccagtga agccctccgc cctttgttca ccctgggcat    720
cgaagccagc tcggaagctc agttttacac caaaggtgac caacttatac tcaacttgaa    780
taacatcagc tctgatcgga tccagctgat gaactctggg attggctggt tccaacctga    840
tgttctgaaa aacatcatca ctgaratcat ccactccatc ctgctgccga accagaatgg    900
caanttaaga ctggggtccc agtgtcattg gtgaaggcct tgggattcga ggcagctgag    960
tcctcactga ccaaggatgc ccttgtgctt actccagcct ccttgtggaa acccasctct   1020
cctgtctccc agtgaagact tggatggcag ccatcaggga argctgggtc ccagctggga   1080
rtatgggtgt gagctctata gaccatccct ctctgcaatc aataaacact tgcctgtgaa   1140
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa                                  1172
```

<210> 107
<211> 427
<212> DNA
<213> Homo sapiens

<400> 107
```
ccacgcgtcc ggtgggctca ctgttgggct ccagcctagt ggcactgctg tccttgcccg     60
ggggctggct gcactgcccc aaggactttg ggaacatcaa caattgccgg atggacctct    120
acttcttcct gctggctggc attcaggccg tcacggctct cctatttgtc tggatcgctg    180
gacgctatga gagggcgtcc cagggcccag cctcccacag ccgtttcagc agggacaggg    240
gctgaacagg ccctattcca gcccccttgc ttcactctac cggacagacg gcagcagtcc    300
cagctctggt ttccttctcg gtttattctg ttagaatgaa atggttccca taaataaggg    360
gcatgagccc ttcctcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    420
aaaaaaa                                                              427
```

<210> 108
<211> 1708
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc_feature
<222> (85)..(85)
<223> n equals a,t,g, or c


<220>
<221> misc_feature
<222> (254)..(254)
<223> n equals a,t,g, or c


<220>
<221> misc_feature
<222> (256)..(256)
<223> n equals a,t,g, or c


<220>
<221> misc_feature
<222> (423)..(424)
<223> n equals a,t,g, or c

<400> 108
ctcgtgcgaa ttcggcagag ctctgggcca atatggcagc gcccagcaac aagacagagc      60
tggcctggag tccgcggctg gccgngtgag taggtgattg tctgacaagc agaggcatga     120
gctgggtcca ggccacccta ctggcccgag gcctctgtag ggcctgggga ggcacctgcg     180
gggccgccct cacaggaacc tccatctctc aggtccctcg ccggctccct cggggcctcc     240
actgcagcgc actncncata gctctgaaca gtccctggtt cccagcccac cggaaccccg     300
gcagaggccc accaaggctc tggtgccctt tgaggacctg tttgggcagg cgcctggtgg     360
ggaacgggac aaggcgagct tcctgcagac ggtgcagaaa tttgcggasa cagcgtgcgt     420
aannggggcc acattgactt catctacctg gccctgcgca agatgcggga gtatggtgtc     480
gagcgggacc tggctgtgta caaccagctg ctcaacatct tccccaagga ggtcttccgg     540
cctcgcaaca tcatccagcg catcttcgtc cactaccctc ggcagcagga gtgtgggatt     600
gctgtcctgg agcagatgga gaaccacggt gtgatgccca acaaggagac ggagttcctg     660
ctgattcaga tctttggacg caaaagctac cccatgctca agttggtgcg cctgaagctg     720
tggttccctc gattcatgaa cgtcaacccc ttcccagtgc cccgggacct gccccaggac     780
cctgtggagc tggccatgtt tggcctgcgg cacatggagc ctgaccttag tgccagggtc     840
accatctacc aggttccttt gcccaaagac tcaacaggtg cagcagatcc cccccagccc     900
cacatcgtag gaatccagag tcccgatcag caggccgccc tggcccgcca caatccagcc     960
cggcctgtct ttgttgaggg cccccttctcc ctgtggctcc gcaacaagtg tgtgtattac    1020
cacatcctca gagctgactt gctgccccccg gaggagaggg aagtggaaga gacgccggag    1080
gagtggaacc tctactaccc gatgcagctg gacctggagt atgtgaggag tggctgggac    1140
aactacgagt ttgacatcaa tgaagtggag gaaggccctg tcttcgccat gtgcatggcg    1200
ggtgctcatg accaggcgac gatggctaag tggatccagg gcctgcagga gaccaaccca    1260
accctggccc agatccccgt ggtcttccgc ctcgccgggt ccacccggga gctccagaca    1320
tcctctgcag ggctggagga gccgcccctg cccgaggacc accaggaaga agacgacaac    1380
ctgcagcgac agcagcaggg ccagagctag tctgagccgg cgcgagggca crggctgtgg    1440
cccgaggagg cggtggactg aaggcatgag atgccctttg agtgtacagc aaatcaatgt    1500
tttcctgctt ggggctctct tccctcatct ctagcagtat ggcatcccct ccccaggatc    1560
tcgggctgcc agcgatgggc aggcgagacc cctccagaat ctgcaggcgc ctctggttct    1620
ccgaattcaa ataaaaaggg gcgggagcgc tgttggttgt gcgcaaaaaa aaaaaaaaaa    1680
aaaaaaaaaa aaaaaaaagg gcggccgc                                        1708


<210> 109
<211> 1487
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (78)..(78)
<223> n equals a,t,g, or c


<220>
<221> misc_feature
<222> (948)..(948)
<223> n equals a,t,g, or c
```

<400> 109
```
ccgctgctga taactatggc atcccccggg cctgcaggaa ttcggcacgg agctacggcg     60
ccgcctggct cctgctgnca cctgcaggct cgtcgcgggt ggagcccacc caagacatca    120
gcatcagcga ccagctgggg ggccaggacg tgcccgtgtt ccggaacctg tccctgctgg    180
tggtgggtgt cggcgccgtg ttctcactgc tattccacct gggcacccgg gagaggcgcc    240
ggccgcatgc ggasgagcca ggcgagcaca cccccctgtt ggcccctgcc acggcccagc    300
ccctgctgct ctggaagcac tggctccggg agcsggcttt ctaccaggtg ggcatactgt    360
acatgaccac caggctcatc gtgaacctgt cccagaccta catggccatg tacctcacct    420
actcgctcca cctgcccaag aagttcatcg cgaccattcc cctggtgatg tacctcagcg    480
gcttcttgtc ctccttcctc atgaagccca tcaacaagtg cattgggagg aacatgacct    540
acttctcagg cctcctggtg atcctggcct ttgccgcctg ggtggcgctg gcggagggac    600
tgggtgtggc cgtgtacgca gcggctgtgc tgctgggtgc tggctgtgcc accatcctcg    660
tcacctcgct ggccatgacg gccgacctca tcggtcccca cacgaacagc ggagckttcg    720
tgtacggctc catgagcttc ttggataagg tggccaatgg gctggcagtc atggccatcc    780
agagcctgca cccttgcccc tcagagctct gctgcagggc ctgcgtgagc ttttaccact    840
gggcgatggt ggctgtgacg ggcggcgtgg gcgtggccgc tgccctgtgt ctctgtagcc    900
tcctgctgtg gccgacccgc ctgcgacgct gatgagacct gcacgcantg gctcacagca    960
gcacgatttg tgacagcccg aggcggagaa caccgaacac ccagtgaagg tgaggggatc   1020
agcacggcgc ggccacccac gcacccacgc gctggaatga gactcagcca caaggaggtg   1080
cgaagctctg acccaggcca cagtgcggat gcaccttgag gatgtcacgc tcagtgagag   1140
acaccagaca cagaagggta cgctgtgatc ccacttctat gaaatgtcca ggacagacca   1200
atccacagaa tcagggagag gattcgtggg tgccgggact ggggagggg acctgggggt    1260
gactaggtga cataatgggg acagggctgc cttctgggtg atgagaatgt tctggaatca   1320
gatgggatgg ctgcacggcg tggtgaaggt actgaacgcc acctcactgt aagacggtag   1380
attttgtatt ttaccacaat aaacaaaaca aaacaaaacc aaaaaaaaaa aaaaaaaaa    1440
aaaaaaaagg aattcgatat caagcttatc gataccgtcg acctcga                 1487
```

<210> 110
<211> 1525
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (78)..(78)
<223> n equals a,t,g, or c

<400> 110
```
ccgctgctga taactatggc atcccccggg cctgcaggaa ttcggcacgg agctacggcg     60
ccgcctggct cctgctgnca cctgcaggct cgtcgcgggt ggagcccacc caagacatca    120
gcatcagcga ccagctgggg ggccaggacg tgcccgtgtt ccggaacctg tccctgctgg    180
tggtgggtgt cggcgccgtg ttctcactgc tattccacct gggcacccgg gagaggcgcc    240
ggccgcatgc ggasgagcca ggcgagcaca cccccctgtt ggcccctgcc acggcccagc    300
ccctgctgct ctggaagcac tggctccggg agcsggcttt ctaccaggtg ggcatactgt    360
acatgaccac caggctcatc gtgaacctgt cccagaccta catggccatg tacctcacct    420
actcgctcca cctgcccaag aagttcatcg cgaccattcc cctggtgatg tacctcagcg    480
gcttcttgtc ctccttcctc atgaagccca tcaacaagtg cattgggagg aacatgacct    540
acttctcagg cctcctggtg atcctggcct ttgccgcctg ggtggcgctg gcggagggac    600
tgggtgtggc cgtgtacgca gcggctgtgc tgctgggtgc tggctgtgcc accatcctcg    660
tcacctcgct ggccatgacg gccgacctca tcggtcccca cacgaacagc ggactktcgt    720
gtacggctcc atgagcttct tggataaggt ggccaatggg ctggcagtca tggccatcca    780
gagcctgcac ccttgcccct cagagctctg ctgcagggcc tgcgtgagct tttaccactg    840
ggcgatggtg ctgtgacgg gcggcgtggg cgtggccgct gccctgtgtc tctgtagcct    900
cctgctgtgg ccgacccgcc tgcgacgctg gaccgtgat gcccggccct gactcctgac    960
agcctcctgc acctgtgcaa gggaactgtg gggacgcacg aggatgcccc ccarggcctt   1020
ggggaaaagc ccccactgcc cctcactctt ctctggaccc ccaccctcca tcctcaccca   1080
gctcccgggg gtggggtcgg gtgagggcag cagggatgcc cgccagggac ttgcaaggac   1140
cccctgggtt ttgagggtgt cccattctca actctaatcc atcccagccc tctggaggat   1200
ttggggtgcc cctctcggca gggaacagga agtaggaatc ccagaagggt ctgggggaac   1260
cctaaccctg agctcagtcc agttcacccc tcacctccag cctgggggtc tccagacact   1320
gccagggccc cctcaggacg gctggagcct ggaggagaca gccacggggt ggtgggctgg   1380
gcctggaccc caccgtggtg ggcagcaggg ctgcccggca ggcttggtgg actctgctgg   1440
cagcaaataa agagatgacg gcaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   1500
aaaaaaaaaa aaacccaccg tccgc                                          1525
```

<210> 111

<211> 552
<212> DNA
<213> Homo sapiens

<400> 111
```
ccacgcgtcc ggtcagaatg ccttggaaaa gagctgtagt tctcctaatg ttatggttta      60
tagggcaggc catgtggctg gctcctgcct atgttctaga gtttcaagga aagaacacct     120
ttctgtttat ttggttagct ggtttgttct ttcttcttat caattgttcc atcctgattc     180
aaattatttc ccattacaaa gaagaacccc tgacagagag aatcaaatat gactagtgta     240
tgttccacac cctctgctac tgtgttacat tctgattgtc ttgtatggac cagaagagag     300
ctttgggaca ttttttctga acattctaag cattctagtg aaagttccca tgttccaaca     360
gaacttaaaa gcaatgtttg ccttatatat aaaagggaca caataattga ggtccacctt     420
ctaggaaatc ctaggactcg tttatttggg acatggtggg aataaaggtc acatattgga     480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     540
aaaaaaaaaa aa                                                         552
```

<210> 112
<211> 925
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (444)..(444)
<223> n equals a,t,g, or c

<400> 112
```
ctgcaggaat tcggcacgag cggaaccggg gccggctgct gtgcatgctg gcgctgacct      60
tcatgttcat ggtgctggag gtggtggtga gccgggtgac ctcgtcgctg gcgatgctct     120
ccgactcctt ccacatgctg tcggacgtgc tggcgctggt ggtggcgctg gtggccgagc     180
gcttcgcccg gcggacccac gccacccaga agaacacgtt cggctggatc cgagccgagg     240
taatgggggc tctggtgaac gccatcttcc tgactggcct ctgtttcgcc atcctgctgg     300
aggccatcga gcgcttcatc gagccgcacg agatgcagca gccgctggtg gtccttgggg     360
tcggcgtggc cgggctgctg gtcaacgtgc tggggctctg cctcttccac catcacagcg     420
gcttcagcca ggactccggc cacngccact cgcacggggg tcacggccac ggccacggcc     480
tccccaaggg gcctcgcgtt aagagcaccc gccccgggag cagcgacatc aacgtggccc     540
cgggcgagca gggtcccgac caggaggaga ccaacaccct ggtggccaat accagcaact     600
ccaacgggct gaaattggac cccgcagacc cagaaaaccc cagaagtggt gatacagtgg     660
aagtacaagt gaatggaaat cttgtcagag aacctgacca tatggaactg gaagaagata     720
gggctggaca acttaacatg cgtggagttt ttctgcatgt ccttggagat gccttgggtt     780
cagtgattgt agtagtaaat gccttagtct tttactttc ttggaaaggt tgttctgaag     840
gggatttttg tgtgaatcca tgtttccctg acccctgcaa agcatttgta gaaatattaa     900
tagtactcat gcatcagttt atgag                                          925
```

<210> 113
<211> 1774
<212> DNA
<213> Homo sapiens

<400> 113
```
ggcacgaggt ccccgacgcg ccccgcccaa cccctacgat gaagagggcg tccgctggag      60
ggagccggct gctggcatgg gtgctgtggc tgcaggcctg gcaggtggca gccccatgcc     120
caggtgcctg cgtatgctac aatgagccca aggtgacgac aagctgcccc cagcagggcc     180
tgcaggctgt gcccgtgggc atccctgctg ccagccagcg catcttcctg cacggcaacc     240
gcatctcgca tgtgccagct gccagcttcc gtgcctgccg caacctcacc atcctgtggc     300
tgcactcgaa tgtgctgagc cgaattgatg cgctgcctt cactggcctg gccctcctgg     360
agcagctgga cctcagcgat aatgcacagc tccggtctgt ggacctgcac acattccacg     420
gcctgggccg cctacacacg ctgcacctgg accgctgcgg cctgcaggag ctgggcccgg     480
ggctgttccg cggcctggct gccctgcagt acctctacct gcaggacaac gcgctgcagg     540
cactgcctga tgacaccttc cgcgacctgg gcaacctcac acacctcttc ctgcacggca     600
accgcatctc cagcgtgccc gagcgcgcct tccgtgggct gcacagcctc gaccgtctcc     660
tactgcacca gaaccgcgtg gcccatgtgc acccgcatgc cttccgtgac cttggccgcc     720
tcatgacact ctatctgttt gccaacaatc tatcagcgct gcccactgag gccctggccc     780
ccctgcgtgc cctgcagtac ctgaggctca cgacaacccc tgggtgtgt gactgccggg     840
cacgcccact ctgggcctgg ctgcagaagt ccgcggctc ctcctccgag gtgccctgca     900
gcctcccgca acgcctggct ggccgtgacc tcaaacgcct agctgccaat gacctgcagg     960
```

```
gctgcgctgt ggccaccggc ccttaccatc ccatctggac cggcagggcc accgatgagg    1020
agccgctggg gcttcccaag tgctgccagc cagatgccgc tgacaaggcc tcagtactgg    1080
agcctggaag accagcttcg gcaggcaatg cgctgaaggg acgcgtgccg cccggtgaca    1140
gcccgccggg aaacggtttt tggcccaagg gaacattaat gacttaccct tttgggactc    1200
tgcctggtct tgctgagccc ccggttagtg cattgcggcc cgagggctcc gagccaccag    1260
gttccccact tcgggccctt cgccggaggc caggctgttc acgcaagaac cgcacccgca    1320
gccatgccgt ctgggccagg caggcagcgg gggtggcggg actggtgact cagaaggctc    1380
aggtgcccta cccagcctca cctgcagcct cacccccctg ggcctggcgc tggtgctgtg    1440
gacagtgctt gggccctgct gacccccagc ggacacaaga gcgtgctcag cagccaggtg    1500
tgtgtacata cggggtctct ctccacgccg ccaagccagc cgggcgggccg acccgtgggg    1560
caggccaggc caggtcctcc ctgatgacg cctgccgccc gccacccca tctccacccc     1620
atcatgttta cagggttcgg cggcagcgtt tgttccagaa cgccgcctcc cacccagatc    1680
gcggtatata gagatatgca ttttatttta cttgtgtaaa aatatcggac gacgtggaat    1740
aaagagctct tttcttaaaa aaaaaaaaaa aaaa                                 1774
```

```
<210> 114
<211> 1777
<212> DNA
<213> Homo sapiens

<400> 114
ggcacgaggt ccccgacgcg ccccgcccaa cccctacgat gaagagggcg tccgctggag      60
ggagccggct gctggcatgg gtgctgtggc tgcaggcctg gcaggtggca gccccatgcc     120
caggtgcctg cgtatgctac aatgagccca aggtgacgac aagctgcccc cagcagggcc     180
tgcaggctgt gcccgtgggc atccctgctg ccagccagcg catcttcctg cacggcaacc     240
gcatctcgca tgtgccagct gccagcttcc gtgcctgccg caacctcacc atcctgtggc     300
tgcactcgaa tgtgctggcc cgaattgatg cggctgcctt cactggcctg gccctcctgg     360
agcagctgga cctcagcgat aatgcacagc tccggtctgt ggaccctgcc acattccacg     420
gcctgggccg cctacacacg gtgcacctgg accgctgcgg cctgcaggag ctgggcccgg     480
ggctgttccg cggcctggcc gccctgcagt acctctacct gcaggacaac gcgctgcagg     540
cactgcctga tgacaccttc cgcgacctgg gcaacctcac acacctcttc ctgcacggca     600
accgcatctc cagcgtgccc gagcgcgcct tccgtgggct gcacagcctc gaccgtctcc     660
tactgcacca gaaccgcgtg gcccatgtgc acccgcatgc cttccgtgac cttggccgcc     720
tcatgacact ctatctgttt gccaacaatc tatcagcgct gcccactgag gccctggccc     780
ccctgcgtgc cctgcaatac ctgaggctca cgacaaccc ctgggtgtgt gactgccggg     840
cacgcccact ctgggcctgg ctgcagaagt tccgcggctc ctcctccgag gtgccctgca    900
gcctcccgca acgcctggct ggccgtgacc tcaaacgcct agctgccaat gacctgcagg    960
gctgcgctgt ggccaccggc ccttaccatc ccatctggac cggcagggcc accgatgagg   1020
agccgctggg gcttcccaag tgctgccagc cagatgccgc tgacaaggcc tcagtactgg   1080
agcctggaag accagcttcg gcaggcaatg cgctgaaggg accgcgtgcc ggccgggggac  1140
aggcccggcg ggaaacggtt tttggcccaa gggaacatta atgacttacc cttttgggac   1200
tctgcctggt tttggtgagc ccccggttac ttgcagtgcg gcccgaggga tccgagccac   1260
caggttcccc acttcgggcc cttcgccgga ggccaggctg ttcacgcaag aaccgcaccc   1320
gcagccatgc cgtctgggcc aggcaggcag cggggggtggc gggactggtg actcagaagg   1380
ctcaggtgcc ctacccagcc tcacctgcag cctcaccccc ctgggcctgg cgctggtgct   1440
gtggacagtg cttgggccct gctgacccc agcggacaca agagcgtgct cagcagccag    1500
gtgtgtgtac atacggggtc tctctccacg ccgccaagcc agccgggggcc cgacccgtg   1560
gggcaggcca ggccaggtcc tccctgatg acgcctgccg cccgccaccc catctccac    1620
cccatcatgt ttacagggtt cggcggcagc gtttgttcca gaacgccgcc tcccacccag   1680
atcgcggtat atagagatat gcattttatt ttacttgtgt aaaaatatcg gacgacgtgg   1740
aataaagagc tcttttctta aaaaaaaaaa aaaaaaa                             1777
```

```
<210> 115
<211> 1340
<212> DNA
<213> Homo sapiens

<400> 115
ggcacgagaa agaaaggcga gagaaaaatc aaggcaccaa atttagattg gaggtctcag     60
aggagcagtg tttttccctcc ttcgtaacag ttgaacaact tccagatgta gctagctgca   120
cccctgtaa agatgcaggc tctttacaat gaagacacat cttctgatgt tccttctctc    180
ctgtatggcc agatgcacag gaatagtgcc caaaagacct cagcctgctt tccctttaag   240
gggaaggaga agaaaaaaact ccttttatt tttactttct ttcagcattg aattttgtt    300
gtgtgtatgg tgacttctgt ttttgggaaa cgggaagaag ccagcagcat gctgaattgt    360
cctgacaggc tccgctgggc tcttgccgag gttagcagtg cttttttgt atttaaacca    420
tctcccgggc agtgtaaaaa gtttgcaggt gcggacattc tgtctgactg gtctcggcag   480
```

```
tgctctataa ccctgttgtg tttcttgata aaacacagcc ccacccttta ataaagcaaa      540
gattgctatg aaaccagaga gtctattcat tactgtggag taactagagc agtctgtagt      600
gactagacat acggcaatta ggaagtcatg gagttgggat ttttgtctta attttggctg      660
ctcaaagtgc cccctgtagg atattctttt ttcgggaatt gtttccaaac ttgcctgtct      720
ttatctatgg tgaaactcaa gccgcttttt aaggcaagcc tgcaacccca agtatcaaca      780
tgggctcctg aaggcacagg gagcagattc acagttctga ccagtgttag ggtccccacg      840
agggccaccc atttgaactc aaggttggca gactctggcc ccagcacttg ccgtggtttc      900
aggatggcca gcggtgacac agggctatgg aaccctgggt cttcatctct tcccatatcc      960
tttgtttcac cttctttttg ccatattta ttgtgcttca gatagaaatt ttatttataa     1020
gataaaaagt agctctgagg ctgggcacgg tggctcatgc ctgtggtccc agcactttgg     1080
gaggccgagg tgggtggttc acgagctcag cagatcaaga ccatcctggc caatatggtg     1140
aaaccctgtc tctgctaaaa atacaaaaat tggctgggcg tggtggcggg tgcctgtagt     1200
cccagctact cgggaggctg aggcgggaga atcgattgga cccaggaggc ggaggttgca     1260
gtgagcctag atggcaccac tgcgctccag cctgggtgac agagggagac tgcctcaaaa     1320
aaaaaaaaaa aaaaaaaaaa                                                 1340
```

<210> 116
<211> 813
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (338)..(338)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (384)..(384)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (389)..(389)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (799)..(799)
<223> n equals a,t,g, or c

<400> 116
```
ctgcaggaat tcggcacgag aaagaaaggc gagagaaaaa tcaaggcacc aaatttagat       60
tggaggtctc agaggagcag tgttttccct ccttcgtaac agttgaacaa cttccagatg      120
tagctagctg caccccctgt aaagatgcag gctctttaca atgaagacac atcttctgat      180
gttccttctc tcctgtatgg ccagatgcac aggaatagtg cccaaaagac ctcagcctgc      240
tttcccttta aggggaagg agaagaaaaa actccttttt attttactt tctttcagca      300
ttgaattttt gttgtgtgta tggtgacttc tgtttttngg gaaacggaag aagccagcag      360
catgctgaat tgtcctgaca ggcntccgnt ggctcttgcc gaggttagca gtgctttttt      420
tgwatttaaa ccatctcccg ggcagtgtaa aaagtttgca ggtgcggaca ttctgtctga      480
ctggtctcgg cagtgctcta taaccctgtt gtgtttcttg ataaaacaca gccccaccct      540
ttaataaagc aaagattgct atgaaaccag agagtctatt cattactgtg gagtaactag      600
agcagtctgt agtgactaga catacggcaa ttaggaagtc atggagttgg gattttgtc      660
ttaattttgg ctgctcaaag tgcccccctgt aggatattct ttttcgggga attgtttcca      720
aacttgcctg tctttatcta tggtgaaact caagccgctt tttaaggcaa gcctgcaaac      780
ccaagtatca acatggggnc ctgaagggac agg                                   813
```

<210> 117
<211> 1681
<212> DNA
<213> Homo sapiens

<400> 117
```
cgatggcccc gcggccgctc tagaaagtcc cgttttttttt ttttttttttt ttttttttttt      60
ttttagagta cgttctgcat tttatttytg caggcaacac tttgctcacc agcaagaaca      120
cagcccragg aagggaccca ataacctttc aaaacscaaa ctgctkcctg cggtgagggc      180
```

```
ccagggtcct ccacggagag gacaggcatc ttcctttccc accaggaagg agtcagcccg    240
gagcctctgc tatgtgcaag gcggtgtgca agcaccggct gcggctcttt gctgtctctt    300
ctttctcttt ggggctgggc tgggtgtgcg ttctggtgct gatgctttgg cctgtgaggc    360
tgagcttggc ayctcgaccc gttcaattac agcaacgaag aagccactgc tragygtggt    420
ctcaggggar gcccggaggc agtgctcggc acccgggaac gtgctcaggc ctcggtgggg    480
ccaggcaggc agggcgggag ctagcctgaa ggcgcccggg ttctgctgca gcgcatctcg    540
caccacgtct tcattctcct cctggcagag ggagcacgtg gagtagacga gccgctgcag    600
ggaagggaaa gtgagcgcgt ggcacagggc tcgctgctgg aaccctgcca gggcatgcag    660
acgcaccggg ctaggtgtsc ctgccccggg mtcctccagc tgtctgctcg gcatacccga    720
gccactgcag gaaggatcca gcaggayrta gtggacctca ygrtagcgyg gatcyraggg    780
ggagaccgcc aggaagtcct cctcagccag ytcacagcar gagacgccag cccrggccag    840
cagcgtggcc atggatgcca gccgcttggc atccaggtca aaggcaaaga tcttcccttg    900
gttcttcaga agagcagcca agtgactggt cttattgcct ggggcggcac aggcatcgat    960
gacatgggag cctggcgggg ggtccagcag catggctggg agacagctgg ccctgtcctg   1020
cagaatgagg tgtccggccc ggtacagtgg gtgttcatgc agatctgtct gggcgggaaa   1080
caccagcagc tccggcatca aggggtccag gagaaaatgc ttcccctTga gggctcgtaa   1140
gtcatcgagg ctggaagccc gaccctgata ggagaaacct tgtctcttga ataatcaac    1200
tacatcatcg gagcaggtct tgagagtgtt cacacgcaca aatcgaggca gctgggaggc   1260
tggaccaggc ctggatccca cttccaacag gtcctcattc cggctcacac cccgatgaac   1320
cttgagccga gccaactcag ccttgagcct cgcctggtgc cggcccaaca gagccttcca   1380
tcggcccca ccccctcgaa agccctttcc caacaacaac tcatacacta gcaccttggc   1440
caggtgcggc cgcagcttct tctccgcacg gaggaggccg gcgctggcga tcacagcatc   1500
cagcacggcg gagtagcgct gcgtttcgca caccagcgcg tacagctgct tcacgttctg   1560
gaagttgctg gagtacacca accccttgat agagcctggc ggctctccac gccggccaac   1620
acgcctgcag ctgcagcata cagccccatg ttccgtcgcg ctttacggct ttgtggcaaa   1680
a                                                                   1681
```

<210> 118
<211> 2052
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2045)..(2045)
<223> n equals a,t,g, or c

<400> 118

```
tttgctttc aaatgctccc aaggtctcag atgaagcggt gaaaaaagat tcagagttgg     60
ataagcactt ggaatcacgg gttgaagaga ttatggagaa gtctggcgag gaaggaatgc    120
ctgatcttgc ccatgtcatg cgcatcttgt ctgcagaaaa tatcccaaat ttgcctcctg    180
ggggaggtct tgctggcaas cgtaatgtta ttgaagctgt ttatagtaga ctgaatccac    240
atagagaaag tgatggggt gctggagatc tagaagaccc atggtagcct taaaaacctt    300
ctaaaatgct tttrattctg aaaattgggg gaaaaaactt ttaatcacaa tttcttcaa    360
tacaagggga aaatattctt gcggattccc aacgttttgt gatatgagca gaaaatcatt    420
agcatttccc atcatttgtt catatttgtg ttttctgaca gttgccactt gtagcattgc    480
ctgtactaca gtattttttg ccaacctcag gcatactgct tacatctgta ttgaactttc    540
ggccctagaa accagtggag ttatttcacc acaaatcaac aatgtgcctg aggtgcatgg    600
gaaatatagt tagctatact ctgaaaatac attatgtttt ttttctttaa acaaaacaca    660
caacatgtaa gcatgtaaga gtaaagaatt gtatgatatg ttcctttttt cagttcacca    720
agttggaagc cttttgcagc tctgtggctt ggaatttcat ttgagcaatt tctataggat    780
atgtatttat tattgattgt tatttaawtt ttttcccaat tttacctgta ttaccaaact    840
gggttctcca ataatgtcca aattgtaatg ttgccttgct tcaagataaa gtgtatttgg    900
gaataatatt ataaacccTt acaaatttta tgcatgtatc tactgcatcc ttcaactctc    960
actagaaaat cttttgaaac caaatggatt aatttatggc tatttataat ttgctttgac   1020
atctcactgt tggaaatttt ttaaagatga gatttgcctt tataatgtaa attgtgattt   1080
ttgttttaca tgtgggtttc tatagtttta attttttcag cttttaagat acgagttttg   1140
tgtaatttgg tatttttaat catttatgtt attttaaaag ctcagaatat cacattgaaa   1200
ttactataaa tacatttaaa attatctatt ttagatctaa ggaaatacta cagagatatt   1260
ttcatgggtt cagtaacttt tcattttata acattgggca cggtacagag tgattgtcac   1320
ataaggtact tgaagattta ttagtttaat tctattttta cagtaacctt gaattcttct   1380
gagttttgca tgtattaaat tcaattaatg ctgaacatga agagtaaagt atttatctga   1440
aagaagtttc tgggttagga gaagtaatga atgtatccat ttgtacatgg tttacatgtt   1500
gtggatgctt tgtaaacatt ttcctgtatg tttaaattgt gtttcagcag gatgtaattg   1560
cccttgtgtg tagttaaaat gagtcatcat ctggtccttt gtgaaatgga attcatggta   1620
ttttctgtaa cgttttcctg aagctgtttc tggagagcca cacatttaaa tacagacagc   1680
```

```
tttcctgatc atttgattta ttgtgcacct gattttttggt ctaaaaggaa ttattgccac    1740
aatatatttt atttattctt tagattttag ccttgtaagt taaagtgctt tacatgatga    1800
tgtgaaaagc tgtttgtccc tttactgggt ttggggggtt gttaaaagat agggaatgaa    1860
gaatgcaaaa tggtttatcg ttcaaactgt ccactctgat ccaaccctgt actgatagta    1920
cttcccagta tgatattgtg atgtttcata caatgcagtg aacataacca acttgttacc    1980
taaataaaga attgataaaa acagtgtgac atattaaaaa aaaggggggc ccggtaccca    2040
attcnnccta ta                                                        2052
```

<210> 119
<211> 539
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (528)..(529)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (531)..(532)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (537)..(537)
<223> n equals a,t,g, or c

<400> 119
```
gagatacatt ccatgaatac ctagtttatt gagagttttt agcatgaagg actgtcgaat     60
tttgtcaaag gcttttctg catctattga gataatcatg tggttttgt ctttggttct      120
gtttatgtga tggactatgt ttattgattt gcatatgttg aaccagcctt gcatctcagg     180
gatgaagcca actcgatcgt tgtggataag ctttttgatg tgctgctgga tttggtttgc     240
caatatttta ttgaggattt ttgcatcagt gttcttcagg gatattggtc taaaattctc     300
tttttttttgt tgtgtctctg ccaggctttg gtatcaggat gatgctggcc tcataaatga     360
gttagggagg attccctctt tctattgatc agaatagttt cagaaggaat ggtaccagct     420
cttctttgta cctctggtag aatttgggtg kgaatctatc ttgkcctgga atatttttgg     480
ggttggaact caaaaaaaaa aaaaaaaaa tcaaaaaaaa aaaaaaanna nnaaaanaa       539
```

<210> 120
<211> 882
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (117)..(117)
<223> n equals a,t,g, or c

<400> 120
```
gaattcggca cgagcagacc tgggctcgag accataactg tttggcttta acagtacgtg     60
ggcggccgga atccgggagt ccggtgaccc gggctgtggt ctagcataaa ggcggnccca    120
gaagaagggg cggggtatgg gagaagcctc cccacctgcc cccgcaaggc ggcatctgct    180
ggtcctgctg ctgctcctct ctaccctggt gatcccctcc gctgcagctc ctatccatga    240
tgctgacgcc caagagagct ccttgggtct cacaggcctc cagagcctac tccaaggctt    300
cagccgactt ttcctgaaag taacctgctt cggggcatag acagcttatt ctctgccccc    360
atggacttcc ggggcctccc tgggaactac cacaaagagg agaaccagga gcaccagctg    420
gggaacaaca ccctctccag ccacytccag atcgacaaga tgaccgacaa caagacagga    480
gaggtgctga tctccgagaa tgtggtggca tccattcaac cagcggaggg gagcttcgag    540
ggtgatttga aggtacccag gatggaggag aaggaggccc tggtacccat ccagaaggcc    600
acggacagct tccacacaga actccatccc cgggtggcct tctggatcat taagctgcca    660
cggcggaggt cccaccagga tgccctggag ggcggccact ggctcagcga gaagcgacac    720
cgcctgcagg ccatccggga tggactccgc aaggggaccc acaaggacgt cctagaagag    780
gggaccgaga gctcctccca ctccaggctg tcccccccgaa agacccactt actgtacatc    840
ctcaggccct tcggcagct gtaggggtgg ggaccggggga gc                       882
```

<210> 121
<211> 1193
<212> DNA
<213> Homo sapiens

<400> 121
```
acactatata agttacgcct gcaggttacc ggtccggtaa ttcccgggtc gtacccacgc      60
gtccggtaat gtcaaaggaa aagtaattct gtcaatgctg gttgtctcaa ctgtgatcat     120
tgtgttttgg gaatttatca acagcacaga aggctctttc ttgtggatat atcactcaaa     180
aaacccagaa gttgatgaca gcagtgctca gaagggctgg tggtttctga gctggtttaa     240
caatgggatc cacaattatc aacaagggga agaagacata gacaaagaaa aaggaagaga     300
ggagaccaaa ggaaggaaaa tgacacaaca gagcttcggc tatgggactg gtttaatcca     360
aacttgaagg aatccgaata actaaactgg actctggttt tctgactcag tccttctaga     420
agacctggac tgagagatca tgcggttaag gagtgtgtaa caggcggacc acctgttggg     480
actgsgagat tctcaagggg aaggactggg tctcatttct cccatctcag cgcttagcag     540
gatgacctgg tatagagcag ggaactggga aatgtgggtc aggggatcag acactccagt     600
tgggtctttt atataaatta aatggcaaaa ggctccatac ccttctcctt ctttcctacc     660
ctccacttta tctgcaaaat gggaatgatg ataacaccca cttcatagaa tggtcatgaa     720
gatcaaatga gagaataaaa gtcaagcact tagcctctgg tgcacaataa gtattaaata     780
agtataccta ttcctccttt tcctttttta aaaataatat taccaaatgt ccagcttata     840
cacatttaca agacttagct agtgggctat gttagagcta ctaaaagatc tttgacaagc     900
taaaactaag atgcaatgaa tgaggtgtaa cgaacaagag agttttaagt tcagaaatgg     960
ttacagaagt ataagacagc tgtgtgggtg ttttttggtt tttggtttct ggtttacaat    1020
ctcgtcattc aacaaagatg ggagttttat agaactaaaa gcmccatgta agctactaaa    1080
aacaacaaca aaaaaggctc atcatttctc agtctgaatt gacaaaaatg ccaatgcaaa    1140
taaaaatgat tacttttat tttaaaaaaa aaaaaaaaaa aaaaaaactc gta            1193
```

<210> 122
<211> 1338
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (519)..(519)
<223> n equals a,t,g, or c

<400> 122
```
ggcacgaggg tgaggcccag gtagcgtttg caatccagcc ccaccgtcac ctctttttctt      60
ggacttctag ttttcctcac ccctattgcc ttcatccttt tacctccgat cctgtggagg     120
gaatgagctg gagccttgtg gcacaatttg tgagggctc tttatctcca tggcattcaa      180
actcctcatt ctgctcatag ggacctgggc actttttttc cgcaagcgga gagctgacat     240
gccacgggtg tttgtgtttc gtgccctttt gttggtcctc atctttctct tttgtggttt     300
ccctattggc tttttttacgg ggtccgcatt ttggactctc gggaaccgga attaccaagg    360
gattgtgcaa tatgcagtct ccccttgtgg aatgccctcc tccttccatc cattactggc    420
catccgtccc tgctggagct cagggagctt gcagcccaat gttccacgct gcaggttggt    480
cccgctccca accgaatggg gaaatccccg cttccagcnt gggacacctg agtatccagc    540
gagcagcatt ggtggtccta gaaaattact acaaagattt caccatctat aacccaaacc    600
tcctaacagc ctccaaattc cgagcagcca agcatatggc cgggctgaaa gtctacaatg    660
tagatggccc cagtaacaat gccactggcc agtcccgggc catgattgct gcagctgctc    720
ggcgcaggga ctcaagccac aacgagttgt attatgaaga ggccgaacat gaacggcgag    780
taaagaagcg gaaagcaagg ctggtggttg cagtggaaga ggccttcatc cacattcagc    840
gtctccaggc tgaggagcag cagaaagccc caggggaggt gatggaccct agggaggccg    900
cccaggccat tttcccctcc atggccaggg ctctccagaa gtacctgcgc atcacccggc    960
agcagaacta ccacagcatg gagagcatcc tgcaagcacc tggccttctg catcaccaac   1020
ggcatgaccc ccaaggcctt cctagaacgg tacctcagtg cgggcccac cctgcaatat    1080
gacaaggacc gctggctctc tacacagtgg aggcttgtca gtgatgaggc tttgactaat   1140
ggattacggg atggaattgt gttcgtcctt aagtgcttgg acttcagcct cgtagtcaat   1200
gtgaagaaaa ttccattcat catactctct gaagagttca tagaccccaa atctcacaaa   1260
tttgtccttc gcttacagtc tgagacatcc gtttaaaagt tctatatttg tggctttatt   1320
aaaaaaaaaa aaaaaaaa                                                  1338
```

<210> 123
<211> 1183
<212> DNA
<213> Homo sapiens

<400> 123
```
tgcaggaatt cggcacgagc tggctgcagg gtctctgggg agagaagggg cctcggcttc    60
acaggatggg gctgccagtg tcctgggccc ctcctgccct ctgggttcta gggtgctgcg   120
ccctgctcct ctcgctgtgg gcgctgtgca cagcctgccg cagcccgagg acgctgtagc   180
ccccaggaag agggcgcgga ggcagcgggc gaggctgcag ggcagtgcga cggcggcgga   240
agcgtcccta ctgaggcgga cccacctctg cttccctcag caagtcggac accagactgc   300
acgagctgca ccgggggccg cgcagcagca gggccctgcg gcctgccagy atggatctcc   360
tgcgcccaca ctggctggag gtgtccaggg acatcaccgg accgcaggca gcccctctg    420
ccttcccaca ccaggagctg ccccgggctc tgccggcagc tgcagccacc gcaggtgcgc   480
tggcctcgag gccacctatt ccaacgtggg gctggcggcc cttcccgggg tcagcctggc   540
ggccagccct gtggtggccg agtatgcccg cgtccagaag cgcaaaggga cccatcgcag   600
tccccaagag ccacagcagg ggaagactga ggtgaccccg gccgctcagg tggacgtcct   660
gtactccagg gtctgcaagc ctaaaaggag ggacccagga cccaccacag acccgctgga   720
ccccaagggc cagggagcga ttctggccct ggcgggtgac ctggcctacc agaccctccc   780
gctcagggcc ctggatgtgg acagcggccc cctggaaaac gtgtatgaga gcatccggga   840
gctgggggac cctgctggca ggagcagcac gtgcggggct gggacgcccc ctgcttccag   900
ctgccccagc ctagggaggg gctggagacc cctccctgcc tccctgccct gaacactcaa   960
ggacctgtgc tccttcctcc agagtgaggc ccgtcccccg ccccgccccg cctcacagct  1020
gacagcgcca gtcccaggtc cccgggccgc cagcccgtga ggtccgtgag gtcctggccg  1080
ctctgacagc cgcggcctcc ccgggctcca gagaaggccc gcgtctaaat aaagcgccag  1140
cgcaggatga aagcgaaaaa aaaaaaaaa aaagggcggc cgc                     1183
```

<210> 124
<211> 615
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (18)..(18)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (20)..(20)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (584)..(584)
<223> n equals a,t,g, or c

<400> 124
```
cctgtatata aaattggncn ctatggtccc gtacaatgaa gaaatgcaaa gatagttaag    60
aaagactcgg ccttcaagga gcctaaatgt gtagaaaagg actaaggcaa aacaataact   120
tttttgagct cttgccatgt gtgaagcact ttatacacct gtaaggtagg taacgttgtt   180
cttattaaac atgaagaaaa tgagactttg tgagaagcaa tacagtatag aagttaagaa   240
tatggactct aaagctagat ttcagaggtt tgaagtagct ctgctactta ctggctgtgt   300
gactttgagc agattactta acctgtctgt gcctatgttt acttttattg ttgtaaaaag   360
atatgcaaca taaaatattc catttcaacc gtttttacgt gtatacttca ctgacattag   420
ttgcattcac tatgttgtgc aaacgtaggg tcgctatgaa gattaaatga gttaattcat   480
ataaagccct cagaagagtg tctggcacat ggtgagtatt ggctgtactg tggtcgatgt   540
cattgttaga gagctttagt gatttgctta agacagaaag gtanactggg gtgcggtggg   600
ctcacgccct ggtta                                                   615
```

<210> 125
<211> 587
<212> DNA
<213> Homo sapiens

<400> 125
```
cccacgcgtc cgcctggaac ctgattctcc tgaccgtctt taccctgtcc atggcctacc    60
tcactgggat gctgtccagc tactacaaca ccacctccgt gctgctgtgc ctgggcatca   120
cggcccttgt ctgcctctca gtcaccgtct tcagcttcca gaccaagttc gacttcacct   180
cctgccaggg cgtgctcttc gtgcttctca tgactctttt cttcagcgga ctcatcctgg   240
```

```
ccatcctcct accccttccaa tatgtgccct ggctccatgc agtttatgca gcactgggag    300
cgggtgtatt tacattgttc ctggcacttg acacccagtt gctgatgggt aaccgacgcc    360
actcgctgag ccctgaggag tatattttg gagccctcaa catttaccta gacatcatct     420
atatcttcac cttcttcctg cagcttttg gcactaaccg agaatgagga gccctccctg     480
ccccaccgtc ctccagagaa tgcgccctc ctggttccct gtccctcccc tgcgctcctg      540
cgagaccaga tataaaacta gctgccaacc caaaaaaaaa aaaaaaa                   587
```

<210> 126
<211> 1379
<212> DNA
<213> Homo sapiens

<400> 126
```
gggcccagca gcagcggcac ctggagaagc agcacctgcg aattcagcat ctgcaaagcc    60
agtttggcct cctggaccac aagcacctag accatgaggt ggccaagcct gcccgaagaa    120
agaggctgcc cgagatggcc cagccagttg acccggctca caatgtcagc cgcctgcacc    180
ggctgcccag ggattgccag gagctgttcc aggttgggga gaggcagagt ggactatttg     240
aaatccagcc tcaggggtct ccgccatttt tggtgaactg caagatgacc tcagatggag     300
gctggacagt aattcagagg cgccacgatg gctcagtgga cttcaaccgg ccctgggaag    360
cctacaaggc gggggtttggg gatccccacg gcgagttctg gctgggtctg gagaaggtgc     420
atagcatcat ggggggaccgc aacagccgcc tggccgtgca gctgcgggac tgggatggca    480
acgccgagtt gctgcagttc tccgtgcacc tgggtggcga ggacacggcc tatagcctgc    540
agctcactgc acccgtggcc ggccagctgg gcgccaccac cgtcccaccc agcggcctct    600
ccgtacccct ctccacttgg gaccaggatc acgacctccg cagggacaag aactgcgcca    660
agagcctctc tggaagctgg tggtttggca cctgcagcca ttccaacctt caacgggcca    720
gtacttccgg ctccatccca cagcagcggc agaagcttaa gaagggaatc ttctggaaga    780
cctgcgggcc gctactaccc gctgcaggcc accaccatgt tgatccagcc catggcagca    840
gaggcagcct cctagcgtcc tggctgggcc tggtcccagg cccacgaaag acggtgactc    900
ttggctctgc ccgaggatgt ggccgttccc tgcctgggca ggggctccaa ggagggggcca    960
tctggaaact tgtggacaga gaagaagacc acgactggag aagccccctt tctgagtgca    1020
ggggggggctgc atgcgttgcc tcctgagatc gaggctgcag gatatgctca gactctagag    1080
gcgtggacca aggggcatgg agcttcactc cttgctggcc agggagttgg ggactcagag    1140
ggaccacttg gggccagcca gactggcctc aatggcggac tcagtcacat tgactgacgg    1200
ggaccagggc ttgtgtgggt cgagagcgcc ctcatggtgc tggtgctgtt gtgtgtaggt    1260
cccctgggga cacaagcagg cgccaatggt atctgggcgg agctcacaga gttcttggaa    1320
taaaagcaac ctcagaacac ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa    1379
```

<210> 127
<211> 583
<212> DNA
<213> Homo sapiens

<400> 127
```
ccacgcgtcc gggacatctg ccggctggag cgggcagtgt gccgcgatga gccctctgcc    60
ctggcccggg cccttacctg gaggcaggca agggcacagg ctggagccat gctgctcttc    120
gggctgtgct ggggggcccta cgtggccaca ctgctcctct cagtcctggc ctatgagcag    180
cgcccgccac tggggcctgg gacactgttg tccctcctct ccctaggaag tgccagtgca    240
gcggcagtgc ccgtagccat ggggctgggc gatcagcgct acacagcccc ctggagggca    300
gccgcccaaa ggtgcctgca ggggctgtgg ggaagagcct cccgggacag tcccggcccc    360
agcattgcct accacccaag cagccaaagc agtgtcgacc tggacttgaa ctaaaggaag    420
ggcctctgct gactcctacc agagcatccg tccagctcag ccatccagcc tgtctctact    480
gggccccact tctctggatc agagaccctg cctctgtttg accccgcact gactgaataa    540
agctcctctg gccgtttaaa aaaaaaaaa aaaaaaaaaa aaa                        583
```

<210> 128
<211> 1268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1184)..(1184)
<223> n equals a,t,g, or c

<220>
<221> misc_feature

<222> (1240)..(1240)
<223> n equals a,t,g, or c

<400> 128
```
agggttgatg ggttatggtc aggagtccca gctgggccca ccacctcctc aggaaggcgg        60
gtgaggttgg tgtgagactg acggtgcctc ctcatgtccc cttggagcgc cccaccccac       120
atctcccggc ctcgggtcct tgcctggccc agcatgagag gtgcttcata ggaacggagg       180
gaggacatgt cgggacagct cgatgctcgg cctgctgctg ctctgcaccc ccagggcctg       240
gctcaccctc tctggacctg tctgcttcca aggaagggac cctctgaggt cccacagagg       300
ccaccccagc tgtgggtcgt gagcatctct gtcttgcagg gacagcatcg tggccgagct       360
ggaccgagag atgagcagag cgtggacgtg accaacacca ccttcctgct catggccgcc       420
tccatctatc tccacgacca gaacccggat gccgccctgc gtgcgctgca ccagggggac       480
agcctggagt ggtgagtggc ctccctgctc tgggccagcc cagggaggca agtgccccct       540
gccacatctc caggctgcgc acggcctcgc tggctgtcgt catgggagca gagaaaggtg       600
gtgctgaaat gaggccctgg cctgctgtcc aggctccagc tcccctgccc agtgtgggag       660
gcactcccat ctgcgcacca ggctgcggat ccaaggacac ggtgcccagg ctgcaaccct       720
ctgttcccaa gggcagagca gaaagcggct ttgtctctgc tcggtttctg tgtccccacc       780
ccccacgaag ccttctgtgt ctcggccctg ggcccagtct ctcaggcctc cccgggcccc       840
ccataccggc cctcctccag ggccctctgg ggttggggtg ctgaagccct gcaaggttgg       900
tgccccctc caccctagga tgtgactccg ggccatgtcc agggcactgg tcacagaaag       960
tgtgtcagtt cttcccgtg agctgtccct gcagtgcctg ccttccactg tgagttgcaa      1020
gctgggcatt tcatggtcgc tgtggatctg ctcccatccc acctccatcc acagagggct      1080
tagaattgca gggcgagcca ggcatggtga catgcaccta tgtttccagc tacttgggag      1140
gcggaagtca ggagtatccc ttgagtctgg gaggtggagg ctgncagtga gccgtgatgg      1200
tgccactgca ctccagcctg ggtggcagag ccagaccctn actcacacac aaaaaaaaaa      1260
aaaaaaaa                                                              1268
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<210> 129
<211> 1311
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1036)..(1036)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1112)..(1112)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1168)..(1168)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1223)..(1223)
<223> n equals a,t,g, or c

<400> 129
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gaaaaaagaa agcaatatgg aaaccgaact aaggagattt taaactgaga tataagatgc        60
tttcaattat tcccaatgac aggctattta tcaatttaat attttaagc aacttcctcc       120
catcagtgct ctgggaacca gctgggcaga tgtggtacac ccatgtcaga taccccagtg       180
gcaggctcct gtcactgtag cacttggtcc ctccatccct cccagccttc ctagctcctt       240
gctcctggaa acctcccccc atcaatctct gacatttcag aggaaatact gtttgtcacc       300
tcttaaggaa tctgggagga cggcctgtga gatatggcgt cagttacagc ctcttaaaga       360
gtcaatagcc cctgcagagg ccagaacact ggaacaaatg taaggaaggt atagtttta       420
aagattttg acttgaatta aataggattg gttacttctt gccctcccg agggtggact       480
gtgcacagaa gagacctctt caccgggttt gctgctcttt ttcgcactgt gagttggggt      540
tctaacagtc agcgttggtc cataacaaaa tggaaatcct ttctttcccc tcctgttaat      600
gccccctgtc tgtgcagtga ctgtgcaacc agcacctttt gtggtcgaat cagccagcag      660
aagtgcccct cgtgttcctg gattctctct tctgtggttc catttctttg agtcctgggt      720
tctcgccctg aatggctcaa caggggggaaa ggcagacagc ttcttcgtgc cagaaacatt      780
```

```
tttttttttt tttgaaatar tgagccaaga ttgcgccact gcattccatc ctcagcaaca    840
garcaagact ccaactcawa acaaaacaaa agattgargt wattgtggca acacctgcct    900
tttttctaa gctgcaattc tctactgttt tcaagaaaaa tacaagttag cctatttaca    960
gaatgttttg aattgactcc tgtcctctgg ttaaaactcc tcttgagata attgatagct   1020
gaaaaggtag gatggntctc tcaaacttga cttccatcta aatcaacgct gagttgatta   1080
acttagatat caagaaaaat tgcctcatta gnttacccct gaggagatgc ctatgaaggt   1140
acatcctttt tacaattaat aagacagntt tcacatgaag aaacaatttg aaatatttaa   1200
taagaaaatg gggtgaaggc aancattacg gttgggaaaa gaccatgcaa gcctttatag   1260
aggataacga tttatatatt cactattaat ttggccgggt aataggaacc t           1311
```

<210> 130
<211> 1249
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1217)..(1217)
<223> n equals a,t,g, or c

<400> 130
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ggccaggcgg gtctcaaact cctcgtctca ggtgatctgc ttgcctcggc ctcccaaagt     60
gctgggatta caggcgtgag cactgcgccc agcctgagtt tcattttta agtcacatag    120
cagtagtcct tatttcagtg ctagaccctt tgaaatgcga tgaaagctat atggaccctt    180
cgctttgtta tataacatat gcacacatac ccagaatttt gcacatatgt tcagagattc    240
ctagacctgc agacctgcct ctgtgtgtcc caatttaaga acctctgttc tttcttcatg    300
actggatttg cccaattttg tgttattttg ggacttaatt tgtccctctt tgggacattt    360
ccttatttat tgccctcttc agagagtaga tgtagaaaat aaagagagga aacctagatt    420
acttaatttt aatttaacat tttctataga tagcatacca cgccaagtgt gctctgtctt    480
gatccccttc tttctagcat ctgccagaca ttgtagagtt tcscaascag ttgtaggttt    540
gagctgcagc cagtcatttc ttttattctt taaaagtaca tagatttgtc ttttttagggc    600
tttactgaaa gtaaaatatc ctgacattta aactgacaga tgtaggaggt aaaaaataga    660
gttctgaaac atwtgaattt atgtgacagc tgaagtcacg agatgaggka tgtatgtccc    720
ccagggaggw tgcagaaaga agaaaagggg actggaaaca gcatgtcagt ggtgccagct    780
gagggctgga ggcagccagg agagttggga gcctgggtgc tgggtggaga gaggttaaca    840
gggaakacat gggaagtatt gtgaaggctg gtgtgagcag gggactactc cagccctgtt    900
ggaacataga gccatttggc agattgacaa tgcagtgaca gctgtatata ataaatgtgt    960
tgaaaggagg aaggtgagga tttcttggt gggagtttat gctgttattt aacatatttt   1020
gcttccaaag gggttaagat gttttaccta aatggargtt tctaggtcag tgctatacaa   1080
tatttctaat ctgtgtttta tagtgtgagc tacatatgta attttaaaat tttcaagtag   1140
ccacataata aaggaaacag gtgaaattta aaaaaaaaa aaaaaaaaa aaaaaaaaa   1200
aaaaaaaaaa aaaaaanaaa aaaaaaaaa aaaaaaaaa aaaaaaaa              1249
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<210> 131
<211> 1660
<212> DNA
<213> Homo sapiens

<400> 131
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ccgggtcgac ccacgcgtcc ggcccgcgga aggcgacatg ggctccgctc cctgggcccc     60
ggtcctgctg ctggcgctcg ggctgcgcgg cctccaggcg ggggcccgca gcggaccccg    120
gcttccagga gcgcttcttc cagcagcgtc tggaccactt caacttcgag cgcttcggca    180
acaagacctt ccctcagcgc ttcctggtgt cggacaggtt ctgggtccgg ggcgaggggc    240
ccatcttctt ctacactggg aacgagggcg acgtgtgggc cttcgccaac aactcggcct    300
tcgtcgcgga ctggcggccg agcggggggc tctactggtc ttcgcggagc accgctacta    360
cgggaagtcg ctgccgttcg gtgcgcagtc cacgcagcgc gggcacacgg agctgctgac    420
ggtggagcag gccctggccg acttcgcaga gctgctccgc gcgctacgac gcgacctcgg    480
ggcccaggat gcccccgcca tcgccttcgg tggaagttat gggggatgc tcagtgccta    540
cctgaggatg aagtatcccc acctggtggc ggggcgctg gcggccagcg cgcccgttct    600
atctgtggca ggcctcggcg actccaacca gttcttccgg gacgtcacgg cggactttga    660
gggccagagt cccaaatgca cccagggtgt gcgggaagcg ttccgacaga tcaaggactt    720
gttcctacag ggagcctacg acacggtccg ctgggagttc ggcacctgcc agccgctgtc    780
agacgagaag gacctgaccc agctcttcat gttcgcccgg aatgccttca ccgtgctggc    840
catgatggac taccctacc ccactgactt cctgggtccc ctccctgcca accccgtcaa    900
ggtgggctgt gatcggctgc tgagtgaggc ccagaggatc acggggctgc gagcactggc    960
agggctggtc tacaacgcct cgggctccga gcactgctac gacatctacc ggctctacca   1020
```

```
cagctgtgct gaccccactg gctgcggcac cggccccgac gccagggcct gggactacca   1080
ggcctgcacc gagatcaacc tgaccttcgc cagcaacaat gtgaccgata tgttcccgga   1140
cctgcccttc actgacgagc tccgccagcg gtactgcctg gacacctggg gcgtgtggcc   1200
ccggcccgac tggctgctga ccagcttctg gggggggtgat ctcagagccg ccagcaacat   1260
catcttctcc aacgggaacc tggacccctg ggcaggggc gggattcgga ggaacctgag   1320
tgcctcagtc atcgccgtca ccatccaggg gggagcgcac cacctcgacc tcagagcctc   1380
ccacccagaa gatcctgctt ccgtggttga ggcgcggaag ctggaggcca ccatcatcgg   1440
cgagtgggta aaggcagcca ggcgtgagca gcagccagct ctgcgtgggg ggcccagact   1500
cagcctctga gcacaggact ggaggggtct caaggctcct catggagtgg gggcttcact   1560
caagcagctg cggcagagg gaaggggctg aataaacgcc tggaggcctg gccatgtaaa   1620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                         1660
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<210> 132
<211> 2075
<212> DNA
<213> Homo sapiens

<400> 132

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ccacgcgtcc gtggggccga gcgccgctgg gtaggcggaa gtagccgcag atggcggcgg    60
ctatgccctt gctctgctcg tcctgttgct cctggggccc ggcggctggt gccttgcaga   120
accccacgc gacagcctgc gggaggaact tgtcatcacc ccgctgcctt ccggggacgt   180
agccgccaca ttccagttcc gcacgcgctg ggattcggag cttcagcggg aaggagtgtc   240
ccattacagg ctctttccca aagccctggg gcagctgatc tccaagtatt ctctacggga   300
gctgcacctg tcattcacac aaggcttttg gaggacccga tactggggg caccccttcct   360
gcaggcccca tcagacactg accactactt tctgcgctat gctgtgctgc cgcgggaggt   420
ggtctgcacc gaaaacctca cccccctggaa gaagctcttg ccctgtagtt ccaaggcagg   480
cctctctgtg ctgctgaagg cagatcgctt gttccacacc agctaccact cccaggcagt   540
gcatatccgc cctgtttgca gaaatgcacg ctgtactagc atctcctggg agctgaggca   600
gaccctgtca gttgtatttg atgccttcat cacggggcag ggaaagaaag actggtccct   660
cttccggatg ttctcccgaa ccctcacggg gccctgcccc ctggcttcag agagccgagt   720
ctatgtggac atcaccacct acaaccagga caacgagaca ttagaggtgc acccaccccc   780
gaccactaca tatcaggacg tcatcctagg cactcggaag acctatgcca tctatgactt   840
gcttgacacc gccatgatca acaactctcg aaacctcaac atccagctca agtggaagag   900
accccagag aatgaggccc ccccagtgcc cttcctgcat gcccagcggt acgtgagtgg   960
ctatgggctg cagaaggggg agctgagcac actgctgtac aacaccccac cataccgggc   1020
cttccggtg ctgctgctgg acaccgtacc ctggtatctg cggctgtatg tgcacaccct   1080
caccatcacc tccaagggca aggagaacaa accaagttac atccactacc agcctgccca   1140
ggaccggctg caaccccacc tcctggagat gctgattcag ctgccggcca actcagtcac   1200
caaggtttcc atccagtttg agcgggcgct gctgaagtgg accgagtaca caccagatcc   1260
taaccatggc ttctatgtca gcccatctgt cctcagcgcc cttgtgccca gcatggtagc   1320
agccaagcca gtggactggg aagagagtcc cctcttcaac agcctgttcc cagtctctga   1380
tggctctaac tactttgtgc ggctctacac ggagccgctg ctggtgaacc tgccgacacc   1440
ggacttcagc atgccctaca cgtgatctg cctcacgtgc actgtggtgg ccgtgtgcta   1500
cggctccttc tacaatctcc tcacccgaac ctttccacat cgaggagccc cgcacaggtg   1560
gcctggccaa gcggctggcc aaccttatcc ggcgcgcccg agtgtccccc ccactctgat   1620
tcttgcccttt tccagcagct gcagctgccg tttctctctg gggaggggag cccaagggct   1680
gtttctgcca cttgctctcc tcagagttgg cttttgaacc aaagtgccct ggaccaggtc   1740
agggcctaca gctgtgttgt ccagtacagg agccacgagc caaatgtggc atttgaattt   1800
gaattaactt agaaattcat ttcctcacct gtagtggcca cctctatatt gaggtgctca   1860
ataagcaaaa gtggtcggtg gctgctgtat tggacagcac agaaaaagat ttccatcacc   1920
acagaaaggt cggctggcag cactggccaa ggtgatgggg tgtgctacac agtgtatgtc   1980
actgtgtagt ggatggagtt tactgtttgt ggaataaaaa cggctgtttc cgtggttaaa   2040
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa                              2075
```

<210> 133
<211> 1333
<212> DNA
<213> Homo sapiens

<400> 133

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gaattcggca cgagcccagg agtgcagtgg tatgatcata gttcaccgta gcctcaaact    60
cgtgggctca agtgatcctc cagccttaac ctcccgaata gcctggctta taggtgcacg   120
ccacacacct gactgctcag tatgtaaatt tttactatgc ctaaggttga ccaccttta   180
atatgtttag gagccatttg tatttccttt tgtttcccat attgttttgt tcctatccat   240
ttttctacta tatcgttgat atgttgttta tttgttaggg atatgaaccc tttgacagta   300
atgagttgca aatattttct ttccaatttg tcatctgtct tttgcttatg atggctttgt   360
```

```
catgagtttt aaaaaatttt tatgtagtct gaataccagt ttttttagtg gtttctggat    420
tttgagtcat aattagaatg twtttctcaa tccagagcaa tagagtaatt cacctaaatt    480
ctacatctaa attttgaacc tctgaagcat attctggcat aagatataag ttatggatct    540
aacctaattt tttccgcagg tgattaaccc agttgttcca atattattta ttgaactgtt    600
tgtttttttcc tgacgagttt gagargctac attgatctta tcttagaatc cgtcatatgt    660
atttagctgt gtatctgctt ctgtttctct gtatctgttt ctatttcatt gctctattta    720
gtcatgcact artaccacat tgtttaatt acccaggctt tagttttaat ctagtgcatt    780
ggtcctccct cattcctccc ctgcccamct tttttttttt taacagtttt tctaactgtt    840
ccttatttt cccatatgrg ctttaaaaaa ttcttaacat atagagcata ctaaaactgt    900
ccaactcaag ttctctccca agggttgcac ttttaaccac ttattttgtc actgttcttt    960
tgatactttm cctgataaag atacacttt tactacttt aaattattac agtgttctat   1020
ttggcagtgc ccaaacaggt gatggcagat agaggcagga tgcaatgcct gtgtggaaag   1080
aatgtcatct cagtgcttct attttaagat agtctctagg aatgatttaa ggactgttct   1140
catgtaaaat ccctatttct tttttttattc cattacgaat tatttgccca aaagttggat   1200
atctgtcaaa gattcataag acaagaggga gagaccctta aataagtact aaacttgtaa   1260
aatcaatatg tggataaaag tgcaagtaca agaagttact ttggaaaaaa aaaaaaaaaa   1320
aaaaaaaact cga                                                      1333
```

<210> 134
<211> 56
<212> PRT
<213> Homo sapiens

<400> 134

```
Met Ala Lys Thr Asp Phe Ser Ile Ile Leu Leu Lys Leu His Cys Leu
 1               5                  10                  15

Phe Phe Phe Ser Val Ile Ser Val His Cys Ala Gln Ser Phe Ile Ser
            20                  25                  30

Val Thr Gln Thr Glu Pro Ser Pro Ala Val Cys Ile Phe Pro Ala Val
        35                  40                  45

Gly Ser Gly Leu Gly Pro Cys Asp
    50                  55
```

<210> 135
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 135

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Met Ala Xaa Leu Asp Asn Cys Leu Met Leu Leu Ile Thr Ser Gly Thr
 1               5                  10                  15

Trp Leu Gly Ser Val Ala Arg Lys Thr Trp Gln Ala Ile Cys Asp Ser
            20                  25                  30

Gly Ser Ser Gly Cys Ala Leu Ile Arg
        35                  40
```

<210> 136
<211> 414
<212> PRT
<213> Homo sapiens

<400> 136

Met Asn Pro Thr Leu Gly Leu Ala Ile Phe Leu Ala Val Leu Leu Thr
 1   5   10   15

Val Lys Gly Leu Leu Lys Pro Ser Phe Ser Pro Arg Asn Tyr Lys Ala
            20   25   30

Leu Ser Glu Val Gln Gly Trp Lys Gln Arg Met Ala Ala Lys Glu Leu
        35   40   45

Ala Arg Gln Asn Met Asp Leu Gly Phe Lys Leu Leu Lys Lys Leu Ala
    50   55   60

Phe Tyr Asn Pro Gly Arg Asn Ile Phe Leu Ser Pro Leu Ser Ile Ser
65   70   75   80

Thr Ala Phe Ser Met Leu Cys Leu Gly Ala Gln Asp Ser Thr Leu Asp
            85   90   95

Glu Ile Lys Gln Gly Phe Asn Phe Arg Lys Met Pro Glu Lys Asp Leu
            100   105   110

His Glu Gly Phe His Tyr Ile Ile His Glu Leu Thr Gln Lys Thr Gln
        115   120   125

Asp Leu Lys Leu Ser Ile Gly Asn Thr Leu Phe Ile Asp Gln Arg Leu
    130   135   140

Gln Pro Gln Arg Lys Phe Leu Glu Asp Ala Lys Asn Phe Tyr Ser Ala
145   150   155   160

Glu Thr Ile Leu Thr Asn Phe Gln Asn Leu Glu Met Ala Gln Lys Gln
            165   170   175

Ile Asn Asp Phe Ile Ser Gln Lys Thr His Gly Lys Ile Asn Asn Leu
            180   185   190

Ile Glu Asn Ile Asp Pro Gly Thr Val Met Leu Leu Ala Asn Tyr Ile
        195   200   205

Phe Phe Arg Ala Arg Trp Lys His Glu Phe Asp Pro Asn Val Thr Lys
    210   215   220

Glu Glu Asp Phe Phe Leu Glu Lys Asn Ser Ser Val Lys Val Pro Met
225   230   235   240

Met Phe Arg Ser Gly Ile Tyr Gln Val Gly Tyr Asp Asp Lys Leu Ser
            245   250   255

Cys Thr Ile Leu Glu Ile Pro Tyr Gln Lys Asn Ile Thr Ala Ile Phe
            260   265   270

Ile Leu Pro Asp Glu Gly Lys Leu Lys His Leu Glu Lys Gly Leu Gln
    275   280   285

Val Asp Thr Phe Ser Arg Trp Lys Thr Leu Leu Ser Arg Arg Val Val
    290   295   300

Asp Val Ser Val Pro Arg Leu His Met Thr Gly Thr Phe Asp Leu Lys
305   310   315   320

Lys Thr Leu Ser Tyr Ile Gly Val Ser Lys Ile Phe Glu Glu His Gly
            325   330   335

Asp Leu Thr Lys Ile Ala Pro His Arg Ser Leu Lys Val Gly Glu Ala
    340   345   350

Val His Lys Ala Glu Leu Lys Met Asp Glu Arg Gly Thr Glu Gly Ala
     355   360   365

Ala Gly Thr Gly Ala Gln Thr Leu Pro Met Glu Thr Pro Leu Val Val
     370   375   380

Lys Ile Asp Lys Pro Tyr Leu Leu Leu Ile Tyr Ser Glu Lys Ile Pro
385   390   395   400

Ser Val Leu Phe Leu Gly Lys Ile Val Asn Pro Ile Gly Lys
          405   410

<210> 137
<211> 44
<212> PRT
<213> Homo sapiens

<400> 137
Met Gly Gln Gln Ser Cys Trp Met Gly Leu Gly Cys Trp Leu Ser Leu
 1   5   10   15

Ser Gly Leu Ser Gly Val Val Arg Ala Ser Pro Arg Ser Pro Arg Pro
      20   25   30

Arg Arg Gly Ala Ala Cys Gly Glu Thr Leu Met Pro
      35   40

<210> 138
<211> 197
<212> PRT
<213> Homo sapiens

<400> 138
Met Ala Gly Pro Trp Thr Phe Thr Leu Leu Cys Gly Leu Leu Ala Ala
 1   5   10   15

Thr Leu Ile Gln Ala Thr Leu Ser Pro Thr Ala Val Leu Ile Leu Gly
      20   25   30

Pro Lys Val Ile Lys Glu Lys Leu Thr Gln Glu Leu Lys Asp His Asn
      35   40   45

Ala Thr Ser Ile Leu Gln Gln Leu Pro Leu Leu Ser Ala Met Arg Glu
     50   55   60

Lys Pro Ala Gly Gly Ile Pro Val Leu Gly Ser Leu Val Asn Thr Val
65   70   75   80

Leu Lys His Ile Ile Trp Leu Lys Val Ile Thr Ala Asn Ile Leu Gln
          85   90   95

Leu Gln Val Lys Pro Ser Ala Asn Asp Gln Glu Leu Leu Val Lys Ile
          100   105   110

Pro Leu Asp Met Val Ala Gly Phe Asn Thr Pro Leu Val Lys Thr Ile
      115   120   125

Val Glu Phe His Met Thr Thr Glu Ala Gln Ala Thr Ile Arg Met Asp
     130   135   140

Thr Ser Ala Ser Gly Pro Thr Arg Leu Val Leu Ser Asp Cys Ala Thr
145   150   155   160

Ser His Gly Ser Leu Arg Ile Gln Leu Leu His Lys Leu Ser Phe Leu
              165   170   175

Val Asn Ala Leu Ala Lys Gln Val Met Asn Leu Leu Val Pro Ser Met
          180   185   190

Pro Arg Trp Pro Asn
       195

<210> 139
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 139
Met His Arg Gln Leu Leu Gly Phe Cys Phe Xaa Phe Cys Phe Phe Phe
  1   5   10   15

Lys Arg His Cys Asp Cys Ile Leu Leu Tyr Leu Ile Gly Phe Val Phe
          20   25   30

Leu Leu Thr Met Val Lys Ile His Leu Ser Glu His Ser
          35   40   45

<210> 140
<211> 40
<212> PRT
<213> Homo sapiens

<400> 140
Met Leu Lys Arg Val Ile Leu Leu Val Glu Met Phe Ile His Phe Leu
  1   5   10   15

Ile Tyr Ala Lys Ser Phe Tyr His Lys Ser Trp Glu Gln Leu Ser Phe
          20   25   30

Thr His Tyr Leu Leu Gln Ile Ser
          35   40

<210> 141
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 141
Met Pro Ile Leu Val Phe Ser Ile Cys Leu Gln Cys Thr Leu Phe Arg
  1   5   10   15

Ser Glu Ala Ile Ile Phe Gln Glu Glu Arg Asn His Gln Val Thr Leu

```
                   20                      25                      30
Leu Lys Ala Val Lys Thr Lys Phe Gln Ser Gly Thr Gly Leu Arg Xaa
            35                      40                      45

Pro Val Leu Glu Tyr Ala Lys Ser Ile Gln Ile Ile Ser Lys Tyr Thr
        50                      55                      60

Cys Gly Thr Val Leu Pro Val Phe Lys Met Arg Arg Tyr Tyr Val Gly
 65                      70                      75                      80

Gln Lys Cys Gln
```

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<210> 142
<211> 200
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 142
Met Phe Phe Leu Leu Cys Leu Val Ala Leu Glu Ile Lys Gly Phe Thr
 1               5                      10                      15

Phe Ser Ala Arg Gly Ala Arg Asp Arg Phe Leu Asn Lys Ser Gly Pro
            20                      25                      30

Gln Pro Gly Lys Lys Met Lys Thr Thr His Cys Lys Gln Pro Leu Phe
            35                      40                      45

Ser Lys Pro Gly Gln Val Arg Gly Ala Leu Arg Lys Ala Arg Gly Arg
        50                      55                      60

Gln Glu Glu Arg Glu Ala Val Gly Met Trp Gly Gly Arg Gly His Ser
 65                      70                      75                      80
```

```
Tyr Pro Glu Tyr Ile Lys Thr Ser Glu Val Thr Glu Val Arg Asp Ser
                85                  90                  95
Pro Lys His Pro Gln Val Gln Pro Phe Leu Thr Thr Arg Val Thr Cys
            100                 105                 110
Arg Val Pro Gly His Leu Gln Val Leu Glu Ala Leu Cys Gly Ala Trp
        115                 120                 125
Gly Ser Met Phe Lys His Ala Leu Val Val Val Gln Val Pro Arg Xaa
    130                 135                 140
Arg Gly Arg Ala Xaa Leu Gly Ser Glu Trp Gln Val Gly Gln Leu Xaa
145                 150                 155                 160
Leu Ile Leu Leu His Gly Thr Gln His Trp Ala Ala Xaa Leu Val Pro
                165                 170                 175
Xaa Leu Pro Gln Glu Ser Ile Leu Pro Ala Gln Ser Xaa Arg Val Thr
            180                 185                 190
Asn Thr Pro Gly Thr Glu Glu Thr
            195                 200


<210> 143
<211> 325
<212> PRT
<213> Homo sapiens

<400> 143
Met Gly Ser Gln Val Ser Ser Met Leu Lys Leu Ala Leu Gln Asn Cys
  1               5                  10                  15
Cys Pro Gln Leu Trp Gln Arg His Ser Ala Arg Asp Arg Gln Cys Ala
            20                  25                  30
Arg Val Leu Ala Asp Glu Arg Ser Pro Gln Pro Gly Ala Ser Pro Gln
        35                  40                  45
Glu Asp Ile Ala Asn Phe Gln Val Leu Val Lys Ile Leu Pro Val Met
    50                  55                  60
Val Thr Leu Val Pro Tyr Trp Met Val Tyr Phe Gln Met Gln Ser Thr
65                  70                  75                  80
Tyr Val Leu Gln Gly Leu His Leu His Ile Pro Asn Ile Phe Pro Ala
                85                  90                  95
Asn Pro Ala Asn Ile Ser Val Ala Leu Arg Ala Gln Gly Ser Ser Tyr
            100                 105                 110
Thr Ile Pro Glu Ala Trp Leu Leu Leu Ala Asn Val Val Val Val Leu
        115                 120                 125
Ile Leu Val Pro Leu Lys Asp Arg Leu Ile Asp Pro Leu Leu Leu Arg
        130                 135                 140
Cys Lys Leu Leu Pro Ser Ala Leu Gln Lys Met Ala Leu Gly Met Phe
145                 150                 155                 160
Phe Gly Phe Thr Ser Val Ile Val Ala Gly Val Leu Glu Met Glu Arg
                165                 170                 175
```

Leu His Tyr Ile His His Asn Glu Thr Val Ser Gln Gln Ile Gly Glu
            180   185   190

Val Leu Tyr Asn Ala Ala Pro Leu Ser Ile Trp Trp Gln Ile Pro Gln
            195   200   205

Tyr Leu Leu Ile Gly Ile Ser Glu Ile Phe Ala Ser Ile Pro Gly Leu
    210   215   220

Glu Phe Ala Tyr Ser Glu Ala Pro Arg Ser Met Gln Gly Ala Ile Met
225   230   235   240

Gly Ile Phe Phe Cys Leu Ser Gly Val Gly Ser Leu Leu Gly Ser Ser
                245   250   255

Leu Val Ala Leu Leu Ser Leu Pro Gly Gly Trp Leu His Cys Pro Lys
            260   265   270

Asp Phe Gly Asn Ile Asn Asn Cys Arg Met Asp Leu Tyr Phe Phe Leu
            275   280   285

Leu Ala Gly Ile Gln Ala Val Thr Ala Leu Leu Phe Val Trp Ile Ala
    290   295   300

Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro Ala Ser His Ser Arg Phe
305   310   315   320

Ser Arg Asp Arg Gly
                325

<210> 144
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 144
Met Val Phe Val His Leu Tyr Leu Gly Asn Val Leu Ala Leu Leu Leu
  1   5   10   15

Phe Val His Tyr Ser Asn Gly Asp Glu Ser Ser Asp Pro Gly Pro Gln
            20   25   30

His Arg Ala Gln Gly Pro Gly Pro Glu Pro Thr Leu Gly Pro Leu Thr
            35   40   45

Arg Leu Glu Gly Ile Lys Val Gly His Glu Arg Lys Val Gln Leu Val
    50   55   60

Thr Asp Arg Asp His Phe Ile Arg Thr Leu Ser Leu Lys Pro Leu Leu
 65   70   75   80

Phe Glu Ile Pro Gly Phe Leu Thr Asp Glu Glu Cys Arg Leu Ile Ile
                85   90   95

His Leu Ala Gln Met Lys Gly Leu Gln Arg Xaa Arg Ser Cys Leu Leu
            100   105   110

Lys Ser Met Lys Arg Gln
            115

```
<210> 145
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 145
Met Lys Leu Thr Ile Phe Phe Xaa Phe Pro Gln Thr Ile Thr Gly Leu
 1               5                  10                  15

Leu Gln Xaa Leu Met Ser Arg Gln Val Glu Asp Val Ala Phe Leu Pro
            20                  25                  30

Leu Pro His Pro Val Phe Ser Phe Ser Phe Phe Phe Pro Leu Val
            35                  40                  45


<210> 146
<211> 519
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (207)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (225)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 146
Met Gln Gly Gly Gln Arg Pro His Leu Leu Leu Leu Leu Leu Ala Val
 1               5                  10                  15

Cys Leu Gly Ala Gln Ser Arg Asn Gln Glu Glu Arg Leu Leu Ala Asp
            20                  25                  30

Leu Met Arg Asn Tyr Asp Pro His Leu Arg Pro Ala Glu Arg Asp Ser
            35                  40                  45

Asp Val Val Asn Val Ser Leu Lys Leu Thr Leu Thr Asn Leu Ile Ser
```

```
              50                        55                        60
Leu Asn Glu Arg Glu Glu Ala Leu Thr Thr Asn Val Trp Ile Glu Met
 65                      70                      75                      80

Gln Trp Cys Asp Tyr Arg Leu Arg Trp Asp Pro Lys Asp Tyr Glu Gly
                85                      90                      95

Leu Trp Ile Leu Arg Val Pro Ser Thr Met Val Trp Arg Pro Asp Ile
            100                     105                     110

Val Leu Glu Asn Asn Val Asp Gly Val Phe Glu Val Ala Leu Tyr Cys
            115                     120                     125

Asn Val Leu Val Ser Pro Asp Gly Cys Ile Tyr Trp Leu Pro Pro Ala
        130                     135                     140

Ile Phe Arg Ser Ser Cys Ser Ile Ser Val Thr Tyr Phe Pro Phe Asp
145                     150                     155                     160

Trp Gln Asn Cys Ser Leu Ile Phe Gln Ser Gln Thr Tyr Ser Thr Ser
                165                     170                     175

Glu Ile Asn Leu Gln Leu Ser Gln Glu Asp Gly Gln Ala Ile Glu Trp
            180                     185                     190

Ile Phe Ile Asp Pro Glu Ala Phe Thr Glu Asn Gly Xaa Trp Xaa Ile
            195                     200                     205

Arg His Arg Pro Xaa Lys Met Leu Leu Asp Ser Val Ala Pro Ala Glu
        210                     215                     220

Xaa Ala Gly His Gln Lys Val Val Phe Tyr Leu Leu Ile Gln Arg Lys
225                     230                     235                     240

Pro Leu Phe Tyr Val Ile Asn Ile Ile Ala Pro Cys Val Leu Ile Ser
                245                     250                     255

Ser Val Ala Ile Leu Ile Tyr Phe Leu Pro Ala Lys Ala Gly Gly Gln
                260                     265                     270

Lys Cys Thr Val Ala Thr Asn Val Leu Leu Ala Gln Thr Val Phe Leu
            275                     280                     285

Phe Leu Val Ala Lys Lys Val Pro Glu Thr Ser Gln Ala Val Pro Leu
        290                     295                     300

Ile Ser Lys Tyr Leu Thr Phe Leu Met Val Val Thr Ile Leu Ile Val
305                     310                     315                     320

Val Asn Ser Val Val Val Leu Asn Val Ser Leu Arg Ser Pro His Thr
                325                     330                     335

His Ser Met Ala Arg Gly Val Arg Lys Val Phe Leu Arg Leu Leu Pro
            340                     345                     350

Gln Leu Leu Arg Met His Val Arg Pro Leu Ala Pro Ala Ala Val Gln
        355                     360                     365

Asp Ala Arg Phe Arg Leu Gln Asn Gly Ser Ser Ser Gly Trp Pro Ile
        370                     375                     380

Met Ala Arg Glu Glu Gly Asp Leu Cys Leu Pro Arg Ser Glu Leu Leu
385                     390                     395                     400

Phe Arg Gln Arg Gln Arg Asn Gly Leu Val Gln Ala Val Leu Glu Lys
```

```
                        405                      410                      415
Leu Glu Asn Gly Pro Glu Val Arg Gln Ser Gln Glu Phe Cys Gly Ser
            420                 425                 430

Leu Lys Gln Ala Ser Pro Ala Ile Gln Ala Cys Val Asp Ala Cys Asn
            435                 440                 445

Leu Met Ala Arg Ala Arg Arg Gln Gln Ser His Phe Asp Ser Gly Asn
    450                 455                 460

Glu Glu Trp Leu Leu Val Gly Arg Val Leu Asp Arg Val Cys Phe Leu
465                 470                 475                 480

Ala Met Leu Ser Leu Phe Ile Cys Gly Thr Ala Gly Ile Phe Leu Met
                485                 490                 495

Ala His Tyr Asn Gln Val Pro Asp Leu Pro Phe Pro Gly Asp Pro Arg
            500                 505                 510

Pro Tyr Leu Pro Leu Pro Asp
            515
```

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<210> 147
<211> 47
<212> PRT
<213> Homo sapiens

<400> 147
Met Leu Leu Phe Ser Ser Arg Phe Ile Met Phe Leu Trp Pro Pro Val
  1               5                  10                  15

Ser Gly Val Cys Leu Ser Phe Ile Arg Asp Arg Ser Phe Leu Pro Met
            20                  25                  30

Cys His Phe Ile Tyr Val Leu Ile Leu Cys Asn Ser Ile Ala Leu
            35                  40                  45
```

```
<210> 148
<211> 431
<212> PRT
<213> Homo sapiens

<400> 148
Met Ser Trp Val Gln Ala Thr Leu Leu Ala Arg Gly Leu Cys Arg Ala
  1               5                  10                  15

Trp Gly Gly Thr Cys Gly Ala Ala Leu Thr Gly Thr Ser Ile Ser Gln
            20                  25                  30

Val Pro Arg Arg Leu Pro Arg Gly Leu His Cys Ser Ala Ala Ala His
            35                  40                  45

Ser Ser Glu Gln Ser Leu Val Pro Ser Pro Pro Glu Pro Arg Gln Arg
        50                  55                  60

Pro Thr Lys Ala Leu Val Pro Phe Glu Asp Leu Phe Gly Gln Ala Pro
 65                  70                  75                  80

Gly Gly Glu Arg Asp Lys Ala Ser Phe Leu Gln Thr Val Gln Lys Phe
            85                  90                  95
```

Ala Glu His Ser Val Arg Lys Arg Gly His Ile Asp Phe Ile Tyr Leu
100 105 110

Ala Leu Arg Lys Met Arg Glu Tyr Gly Val Glu Arg Asp Leu Ala Val
115 120 125

Tyr Asn Gln Leu Leu Asn Ile Phe Pro Lys Glu Val Phe Arg Pro Arg
130 135 140

Asn Ile Ile Gln Arg Ile Phe Val His Tyr Pro Arg Gln Gln Glu Cys
145 150 155 160

Gly Ile Ala Val Leu Glu Gln Met Glu Asn His Gly Val Met Pro Asn
165 170 175

Lys Glu Thr Glu Phe Leu Leu Ile Gln Ile Phe Gly Arg Lys Ser Tyr
180 185 190

Pro Met Leu Lys Leu Val Arg Leu Lys Leu Trp Phe Pro Arg Phe Met
195 200 205

Asn Val Asn Pro Phe Pro Val Pro Arg Asp Leu Pro Gln Asp Pro Val
210 215 220

Glu Leu Ala Met Phe Gly Leu Arg His Met Glu Pro Asp Leu Ser Ala
225 230 235 240

Arg Val Thr Ile Tyr Gln Val Pro Leu Pro Lys Asp Ser Thr Gly Ala
245 250 255

Ala Asp Pro Pro Gln Pro His Ile Val Gly Ile Gln Ser Pro Asp Gln
260 265 270

Gln Ala Ala Leu Ala Arg His Asn Pro Ala Arg Pro Val Phe Val Glu
275 280 285

Gly Pro Phe Ser Leu Trp Leu Arg Asn Lys Cys Val Tyr Tyr His Ile
290 295 300

Leu Arg Ala Asp Leu Leu Pro Pro Glu Glu Arg Glu Val Glu Glu Thr
305 310 315 320

Pro Glu Glu Trp Asn Leu Tyr Tyr Pro Met Gln Leu Asp Leu Glu Tyr
325 330 335

Val Arg Ser Gly Trp Asp Asn Tyr Glu Phe Asp Ile Asn Glu Val Glu
340 345 350

Glu Gly Pro Val Phe Ala Met Cys Met Ala Gly Ala His Asp Gln Ala
355 360 365

Thr Met Ala Lys Trp Ile Gln Gly Leu Gln Glu Thr Asn Pro Thr Leu
370 375 380

Ala Gln Ile Pro Val Val Phe Arg Leu Ala Gly Ser Thr Arg Glu Leu
385 390 395 400

Gln Thr Ser Ser Ala Gly Leu Glu Glu Pro Pro Leu Pro Glu Asp His
405 410 415

Gln Glu Glu Asp Asp Asn Leu Gln Arg Gln Gln Gln Gly Gln Ser
420 425 430

<210> 149

<211> 442
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (364)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 149

```
Met Trp Phe Thr Tyr Leu Leu Leu Tyr Leu His Ser Val Arg Ala Tyr
 1               5                  10                  15

Ser Ser Arg Gly Ala Gly Cys Cys Cys Trp Ala Arg Trp Arg Arg
            20              25              30

Ala Val His Thr Ala Arg Gly Leu Arg Gly Arg Pro Arg Arg Gln Leu
            35              40              45

Leu Arg Pro Leu Arg Pro Ala Gln Gly Leu Ala Pro Gly Arg His Arg
        50              55              60

Leu Arg Pro Ala Val Leu Pro Leu His Leu Gln Pro Leu Pro Gly Leu
 65              70              75                      80

Trp Gly Gly His Ala Glu Trp Ala Ala Leu Leu Tyr Tyr Gly Pro Phe
                85              90                  95

Ile Val Ile Phe Gln Phe Gly Trp Ala Ser Thr Gln Ile Ser His Leu
            100             105             110

Ser Leu Ile Pro Glu Leu Val Thr Asn Asp His Glu Lys Val Glu Leu
        115             120             125

Thr Ala Leu Arg Tyr Ala Phe Thr Val Val Ala Asn Ile Thr Val Tyr
    130             135             140

Gly Ala Ala Trp Leu Leu Leu His Leu Gln Gly Ser Ser Arg Val Glu
145             150             155             160

Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln Asp Val
            165             170             175

Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly Ala Val
            180             185             190

Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg Pro His
        195             200             205

Ala Glu Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala Thr Ala
    210             215             220

Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Pro Ala Phe Tyr
225             230             235             240

Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn Leu Ser
            245             250             255

Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu Pro Lys
            260             265             270

Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly Phe Leu
        275             280             285

Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg Asn Met
        290             295             300
```

Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp Val
305   310   315   320

Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala Val Leu
            325   330   335

Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met Thr
            340   345   350

Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Xaa Phe Val Tyr Gly
            355   360   365

Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val Met Ala
            370   375   380

Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg Ala Cys
385   390   395   400

Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly Val Gly
            405   410   415

Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro Thr Arg
            420   425   430

Leu Arg Arg Trp Asp Arg Asp Ala Arg Pro
            435   440

<210> 150
<211> 75
<212> PRT
<213> Homo sapiens

<400> 150
Met Ser Arg Phe Ile Leu Asn His Leu Val Leu Ala Ile Pro Leu Arg
 1   5   10   15

Val Leu Val Val Leu Trp Ala Phe Val Leu Gly Leu Ser Arg Val Met
            20   25   30

Leu Gly Arg His Asn Val Thr Asp Val Ala Phe Gly Phe Phe Leu Gly
            35   40   45

Tyr Met Gln Tyr Ser Ile Val Asp Tyr Cys Trp Leu Ser Pro His Asn
        50   55   60

Ala Pro Val Leu Phe Leu Leu Trp Ser Gln Arg
 65   70   75

<210> 151
<211> 51
<212> PRT
<213> Homo sapiens

<400> 151
Met Ala Gly Trp Phe Arg Gly Phe Phe Gly Phe Leu Phe Phe Phe Leu
 1   5   10   15

Cys Leu Phe Asn Leu Lys Leu Phe Lys Leu Lys His Ser Gln Met Phe
            20   25   30

Gly Gly Lys His Pro Leu Lys Met Gly Pro Cys Ala Cys Leu Leu Gly

```
                35                      40                      45

Arg Arg Ser
        50


<210> 152
<211> 209
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 152
Met Ala Xaa Ser Ser Arg Gly Asn Ala Asp Ser Ile Val Ala Ser Leu
  1               5                  10                  15

Val Leu Met Val Leu Tyr Leu Ile Lys Lys Arg Leu Val Ala Cys Ala
            20                  25                  30

Ala Val Phe Tyr Gly Phe Xaa Val His Met Lys Ile Tyr Pro Val Thr
            35                  40                  45

Tyr Ile Leu Pro Ile Thr Leu His Leu Leu Pro Asp Arg Asp Asn Asp
      50                  55                  60

Lys Ser Leu Arg Gln Phe Arg Tyr Thr Phe Gln Ala Cys Leu Tyr Glu
 65                  70                  75                  80

Leu Leu Lys Lys Leu Cys Asn Arg Ala Val Leu Leu Phe Val Ala Val
                85                  90                  95

Ala Gly Leu Thr Phe Phe Ala Leu Ser Phe Gly Phe Tyr Tyr Glu Tyr
            100                 105                 110

Gly Trp Glu Phe Leu Glu His Thr Tyr Phe Tyr His Leu Thr Arg Arg
            115                 120                 125

Asp Ile Arg His Asn Phe Ser Pro Tyr Phe Tyr Met Leu Tyr Leu Thr
            130                 135                 140

Ala Glu Ser Lys Trp Ser Phe Ser Leu Gly Ile Ala Ala Phe Leu Pro
145                 150                 155                 160

Gln Leu Ile Leu Leu Ser Ala Val Ser Phe Ala Tyr Tyr Arg Asp Leu
                165                 170                 175

Val Phe Cys Cys Phe Leu His Thr Ser Ile Phe Val Thr Phe Asn Lys
            180                 185                 190

Val Cys Thr Ser Gln Tyr Phe Leu Trp Val Pro Leu Ala Tyr Cys Leu
            195                 200                 205

Leu
```

<210> 153
<211> 218
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (174)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 153
Met Arg Ala Leu Leu Ala Leu Cys Leu Leu Leu Gly Trp Leu Arg Trp
 1   5   10   15

Gly Pro Ala Gly Ala Gln Gln Ser Gly Glu Tyr Cys His Gly Trp Val
            20   25   30

Asp Val Gln Gly Asn Tyr His Glu Gly Phe Gln Cys Pro Glu Asp Phe
            35   40   45

Asp Thr Leu Asp Ala Thr Ile Cys Cys Gly Ser Cys Ala Leu Arg Tyr
        50   55   60

Cys Cys Ala Ala Ala Asp Ala Arg Leu Glu Gln Gly Gly Cys Thr Asn
65   70   75   80

Asp Arg Arg Glu Leu Glu His Pro Gly Ile Thr Ala Gln Pro Val Tyr
                85   90   95

Val Pro Phe Leu Ile Val Gly Ser Ile Phe Ile Ala Phe Ile Ile Leu
            100   105   110

Gly Ser Val Val Ala Ile Tyr Cys Cys Thr Cys Leu Arg Pro Lys Glu
            115   120   125

Pro Ser Gln Gln Pro Ile Arg Phe Ser Leu Arg Ser Tyr Gln Thr Glu
        130   135   140

Thr Leu Pro Met Ile Leu Thr Ser Thr Ser Pro Arg Ala Pro Ser Arg
145   150   155   160

Gln Ser Ser Thr Ala Thr Ser Xaa Ser Phe Thr Gly Gly Xaa Ile Arg
                165   170   175

Arg Phe Phe Ser Ala Ile Trp Phe Pro Gly Val Thr Pro Val Phe Arg
            180   185   190

Leu Pro Pro Ser Ala Xaa Ala Pro Thr Gly Trp Glu Glu Leu Ser Arg
        195   200   205

```
Leu Ser Val Pro Xaa Asp Thr Pro Arg Pro
    210             215
```

<210> 154
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 154
```
Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val
  1               5                  10                  15

Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe
            20                  25                  30

Ala Ser Pro Pro Thr Thr Phe Met Xaa Ile Gln Cys Cys Ser His Cys
        35                  40                  45

Ser
```

<210> 155
<211> 40
<212> PRT
<213> Homo sapiens

<400> 155
```
Met His Ile His Leu Asp Thr Ser Ser Leu Lys Thr Leu His Leu Gly
  1               5                  10                  15

Thr Leu Phe Phe Leu Phe Tyr Leu Ala Leu Thr Gln Asn Glu Glu Asn
            20                  25                  30

Ile Cys Asp Gly Lys Val Thr Leu
        35                  40
```

<210> 156
<211> 107
<212> PRT
<213> Homo sapiens

<400> 156
```
Met Pro Ile Ile Val Leu Ile Leu Val Ser Leu Leu Ser Gln Leu Met
  1               5                  10                  15

Val Ser Asn Pro Pro Tyr Ser Leu Tyr Pro Arg Ser Gly Thr Gly Gln
            20                  25                  30

Thr Ile Lys Met Gln Thr Glu Asn Leu Gly Val Val Tyr Tyr Val Asn
        35                  40                  45

Lys Asp Phe Lys Asn Glu Tyr Lys Gly Met Leu Leu Gln Lys Val Glu
    50                  55                  60

Lys Ser Val Glu Glu Asp Tyr Val Thr Asn Ile Arg Asn Asn Cys Trp
```

| 65 | | | | 70 | | | | 75 | | | | 80 |

Lys Glu Arg Gln Gln Lys Thr Asp Met Gln Tyr Ala Ala Lys Val Tyr
                          85   90   95

Arg Asp Asp Arg Leu Arg Arg Arg Gln Met Pro
            100   105

<210> 157
<211> 156
<212> PRT
<213> Homo sapiens

<400> 157
Met Gln Ala Ser Leu Trp Glu Pro Pro Arg Ser Gly Leu Pro Leu Trp
 1   5   10   15

Ala Glu Gly Leu Thr Phe Phe Tyr Cys Tyr Met Leu Leu Leu Val Leu
           20   25   30

Pro Cys Val Ala Leu Ser Glu Val Ser Met Gln Gly Glu His Ile Ala
       35   40   45

Pro Gln Lys Met Met Leu Tyr Pro Val Leu Ser Leu Ala Thr Val Asn
    50   55   60

Val Val Ala Val Leu Ala Arg Ala Ala Asn Met Ala Leu Phe Arg Asp
65   70   75   80

Ser Arg Val Ser Ala Ile Phe Val Gly Lys Asn Val Val Ala Leu Ala
             85   90   95

Thr Lys Ala Cys Thr Phe Leu Glu Tyr Arg Arg Gln Val Arg Asp Phe
        100   105   110

Pro Pro Pro Ala Leu Ser Leu Glu Leu Gln Pro Pro Pro Pro Gln Arg
       115   120   125

Asn Ser Val Pro Pro Pro Pro Leu His Gly Pro Pro Gly Arg Pro
   130   135   140

His Met Ser Ser Pro Thr Arg Asp Pro Leu Asp Thr
145   150   155

<210> 158
<211> 150
<212> PRT
<213> Homo sapiens

<400> 158
Met Gly Tyr Leu Phe Phe Leu Leu Phe Met Ile Cys Trp Met Ile Tyr
 1   5   10   15

Gly Cys Ile Ser Tyr Trp Gly Leu His Cys Glu Thr Thr Tyr Thr Lys
           20   25   30

Asp Gly Phe Trp Thr Tyr Ile Thr Gln Ile Ala Thr Cys Ser Pro Trp
       35   40   45

Met Phe Trp Met Phe Leu Asn Ser Val Phe His Phe Met Trp Val Ala
    50   55   60

Val Leu Leu Met Cys Gln Met Tyr Gln Ile Ser Cys Leu Gly Ile Thr
 65   70   75   80

Thr Asn Glu Arg Met Asn Ala Arg Arg Tyr Lys His Phe Lys Val Thr
                85   90   95

Thr Thr Ser Ile Glu Ser Pro Phe Asn His Gly Cys Val Arg Asn Ile
            100   105   110

Ile Asp Phe Phe Glu Phe Arg Cys Cys Gly Leu Phe Arg Pro Val Ile
            115   120   125

Val Asp Trp Thr Arg Gln Tyr Thr Ile Glu Tyr Asp Gln Ile Ser Gly
    130   135   140

Ser Gly Tyr Gln Leu Val
145   150

<210> 159
<211> 70
<212> PRT
<213> Homo sapiens

<400> 159
Met Ala Leu Thr Leu Leu Leu Ile Gln Ile Ile Phe Leu Ala Leu Gly
 1   5   10   15

Lys Ile Ser Phe Ile Phe Val Cys Cys Lys Asp Gly Phe Ala Arg Ile
            20   25   30

Ser His Asp Gln Asp Lys Leu Pro Ile Gln Lys Pro Thr Asp Thr Asn
            35   40   45

Tyr Ile Met Arg Lys Lys Cys Ile Gln Leu Gly His Ile Ser Phe Glu
    50   55   60

Leu Phe Gly Leu Lys Ala
 65   70

<210> 160
<211> 490
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (389)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 160
Met Leu Ala Leu Thr Phe Met Phe Met Val Leu Glu Val Val Val Ser
 1   5   10   15

Arg Val Thr Ser Ser Leu Ala Met Leu Ser Asp Ser Phe His Met Leu
            20   25   30

Ser Asp Val Leu Ala Leu Val Val Ala Leu Val Ala Glu Arg Phe Ala

```
               35                    40                    45
Arg Arg Thr His Ala Thr Gln Lys Asn Thr Phe Gly Trp Ile Arg Ala
     50                  55                  60
Glu Val Met Gly Ala Leu Val Asn Ala Ile Phe Leu Thr Gly Leu Cys
 65                  70                  75                  80
Phe Ala Ile Leu Leu Glu Ala Ile Glu Arg Phe Ile Glu Pro His Glu
                 85                  90                  95
Met Gln Gln Pro Leu Val Val Leu Gly Val Gly Val Ala Gly Leu Leu
             100                 105                 110
Val Asn Val Leu Gly Leu Cys Leu Phe His His His Ser Gly Phe Ser
             115                 120                 125
Gln Asp Ser Gly His Xaa His Ser His Gly Gly His Gly His Gly His
             130                 135                 140
Gly Leu Pro Lys Gly Pro Arg Val Lys Ser Thr Arg Pro Gly Ser Ser
145                 150                 155                 160
Asp Ile Asn Val Ala Pro Gly Glu Gln Gly Pro Asp Gln Glu Glu Thr
                 165                 170                 175
Asn Thr Leu Val Ala Asn Thr Ser Asn Ser Asn Gly Leu Lys Leu Asp
             180                 185                 190
Pro Ala Asp Pro Glu Asn Pro Arg Ser Gly Asp Thr Val Glu Val Gln
             195                 200                 205
Val Asn Gly Asn Leu Val Arg Glu Pro Asp His Met Glu Leu Glu Glu
             210                 215                 220
Asp Arg Ala Gly Gln Leu Asn Met Arg Gly Val Phe Leu His Val Leu
225                 230                 235                 240
Gly Asp Ala Leu Gly Ser Val Ile Val Val Asn Ala Leu Val Phe
             245                 250                 255
Tyr Phe Ser Trp Lys Gly Cys Ser Glu Gly Asp Phe Cys Val Asn Pro
             260                 265                 270
Cys Phe Pro Asp Pro Cys Lys Pro Phe Val Glu Ile Ile Asn Ser Thr
             275                 280                 285
His Ala Ser Val Tyr Glu Ala Gly Pro Cys Trp Val Leu Tyr Leu Asp
     290                 295                 300
Pro Thr Leu Cys Val Val Met Val Cys Ile Leu Leu Tyr Thr Thr Tyr
305                 310                 315                 320
Pro Leu Leu Lys Glu Ser Ala Leu Ile Leu Leu Gln Thr Val Pro Lys
             325                 330                 335
Gln Ile Asp Ile Arg Asn Leu Ile Lys Glu Leu Arg Asn Val Glu Gly
             340                 345                 350
Val Glu Glu Val His Glu Leu His Val Trp Gln Leu Ala Gly Ser Arg
             355                 360                 365
Ile Ile Ala Thr Ala His Ile Lys Cys Glu Asp Pro Thr Ser Tyr Met
     370                 375                 380
Glu Val Ala Lys Xaa Ile Lys Asp Val Phe His Asn His Gly Ile His
```

```
385                     390                     395                     400
Ala Thr Thr Ile Gln Pro Glu Phe Ala Ser Val Gly Ser Lys Ser Ser
                405                     410                     415

Val Val Pro Cys Glu Leu Ala Cys Arg Thr Gln Cys Ala Leu Lys Gln
                420                     425                     430

Cys Cys Gly Thr Leu Pro Gln Ala Pro Ser Gly Lys Asp Ala Glu Lys
            435                     440                     445

Thr Pro Ala Val Ser Ile Ser Cys Leu Glu Leu Ser Asn Asn Leu Glu
        450                     455                     460

Lys Lys Pro Arg Arg Thr Lys Ala Glu Asn Ile Pro Ala Val Val Ile
465                     470                     475                     480

Glu Ile Lys Asn Met Pro Lys Gln Thr Thr
                485                     490
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<210> 161
<211> 31
<212> PRT
<213> Homo sapiens

<400> 161
Met Gln Pro Cys Val Ile Ser Trp Glu Gln Cys Ser Phe Val Ser Pro
  1               5                   10                  15

Arg Gly Pro His Val Tyr Ile Cys Phe His Asp Gln Arg Arg Phe
            20                  25                  30
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<210> 162
<211> 115
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 162
Met Leu Gly Leu Leu Gly Ser Thr Ala Leu Val Gly Trp Ile Thr Gly
  1               5                   10                  15

Ala Ala Val Ala Val Leu Leu Leu Leu Leu Leu Leu Ala Thr Cys Leu
                20                  25                  30

Phe His Gly Arg Gln Asp Cys Asp Val Glu Arg Asn Arg Thr Ala Ala
            35                  40                  45

Gly Gly Asn Arg Val Arg Arg Ala Gln Pro Trp Pro Phe Arg Arg Arg
        50                  55                  60

Gly His Leu Gly Ile Phe His His His Arg His Pro Gly His Val Ser
65                  70                  75                  80
```

His Val Pro Asn Val Gly Leu His His His His Pro Arg His Xaa
                    85   90   95

Pro His His Xaa His His His His Pro His Arg His His Pro Arg
              100   105   110

His Ala Arg
        115

<210> 163
<211> 473
<212> PRT
<213> Homo sapiens

<400> 163
Met Lys Arg Ala Ser Ala Gly Gly Ser Arg Leu Leu Ala Trp Val Leu
  1   5   10   15

Trp Leu Gln Ala Trp Gln Val Ala Ala Pro Cys Pro Gly Ala Cys Val
              20   25   30

Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Cys Pro Gln Gln Gly Leu
          35   40   45

Gln Ala Val Pro Val Gly Ile Pro Ala Ala Ser Gln Arg Ile Phe Leu
      50   55   60

His Gly Asn Arg Ile Ser His Val Pro Ala Ala Ser Phe Arg Ala Cys
 65   70   75   80

Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu Ala Arg Ile
              85   90   95

Asp Ala Ala Ala Phe Thr Gly Leu Ala Leu Leu Glu Gln Leu Asp Leu
              100   105   110

Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr Phe His Gly
          115   120   125

Leu Gly Arg Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu
      130   135   140

Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr
145   150   155   160

Leu Gln Asp Asn Ala Leu Gln Ala Leu Pro Asp Asp Thr Phe Arg Asp
              165   170   175

Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Ser Ser
              180   185   190

Val Pro Glu Arg Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu
          195   200   205

Leu His Gln Asn Arg Val Ala His Val His Pro His Ala Phe Arg Asp
      210   215   220

Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Ala
225   230   235   240

Leu Pro Thr Glu Ala Leu Ala Pro Leu Arg Ala Leu Gln Tyr Leu Arg
              245   250   255

Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp
        260   265   270

Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Glu Val Pro Cys Ser
    275   280   285

Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Ala Asn
    290   295   300

Asp Leu Gln Gly Cys Ala Val Ala Thr Gly Pro Tyr His Pro Ile Trp
305   310   315   320

Thr Gly Arg Ala Thr Asp Glu Glu Pro Leu Gly Leu Pro Lys Cys Cys
            325   330   335

Gln Pro Asp Ala Ala Asp Lys Ala Ser Val Leu Glu Pro Gly Arg Pro
        340   345   350

Ala Ser Ala Gly Asn Ala Leu Lys Gly Arg Val Pro Pro Gly Asp Ser
        355   360   365

Pro Pro Gly Asn Gly Ser Gly Pro Arg His Ile Asn Asp Ser Pro Phe
    370   375   380

Gly Thr Leu Pro Gly Ser Ala Glu Pro Pro Ala His Cys Ser Ala Ala
385   390   395   400

Arg Gly Leu Arg Ala Thr Arg Phe Pro Thr Ser Gly Pro Arg Arg Arg
            405   410   415

Pro Gly Cys Ser Arg Lys Asn Arg Thr Arg Ser His Cys Arg Leu Gly
            420   425   430

Gln Ala Gly Ser Gly Gly Gly Gly Thr Gly Asp Ser Glu Gly Ser Gly
        435   440   445

Ala Leu Pro Ser Leu Thr Cys Ser Leu Thr Pro Leu Gly Leu Ala Leu
    450   455   460

Val Leu Trp Thr Val Leu Gly Pro Cys
465   470

<210> 164
<211> 91
<212> PRT
<213> Homo sapiens

<400> 164
Met Arg Leu Cys Val Thr Gly Pro Pro Val Phe Phe Phe Phe Leu Asn
  1   5   10   15

Phe Phe Phe Phe Leu Cys Val Gly Ala Cys Leu Gly Asp Leu Lys Ile
            20   25   30

Ser Arg Leu Val Tyr Leu Cys Lys Ala Cys Leu Arg Leu Glu Tyr Leu
        35   40   45

Gly Lys Glu Ser Asp Ser Met Leu Ser Glu Phe Leu Lys Gly Gln Lys
    50   55   60

Lys Asn Trp Arg Leu Leu Lys Cys Arg Phe Glu Val Ile Phe Leu Lys
 65   70   75   80

Tyr Tyr Phe Gly Phe Cys Asp Ile Val Lys Asn

85   90

<210> 165
<211> 44
<212> PRT
<213> Homo sapiens

<400> 165
Met Lys Lys His Thr Lys Cys Gln Trp Leu Lys Met Thr Ile Leu Phe
 1   5   10   15

Leu Thr Val Met Lys Ile Gly Tyr Gly Thr Ser Ala Ser Cys Tyr Arg
             20   25   30

Pro Glu Val Leu Gly Leu Leu Met Pro His Pro Leu
         35   40

<210> 166
<211> 45
<212> PRT
<213> Homo sapiens

<400> 166
Met Ser Cys Gly Cys Cys Phe Ile His Ile Tyr Asn Leu Leu Leu Ser
 1   5   10   15

Leu Cys Tyr Gly Leu Gly Val Glu Arg Val Lys Phe Phe Thr Phe Ser
             20   25   30

Ile Leu Lys Lys Glu Thr Met Leu Leu Asn Tyr Leu Phe
         35   40   45

<210> 167
<211> 128
<212> PRT
<213> Homo sapiens

<400> 167
Met Leu Ser Ser Pro Ile Leu Ala Ser Gly Pro Ala Trp Leu Ala Cys
 1   5   10   15

Ser Phe Ser His Val Gln Trp Trp Val Cys Leu Ile Ala Gln Val Gln
             20   25   30

Phe Ser Ala Ala Thr Val Ser Pro Gly Arg Ala Gly Thr Gly Ala Ala
         35   40   45

Pro Ser Val Pro Ala Val Trp Ala Ala Glu Ala Arg Gly Pro Ser Val
     50   55   60

Pro Ser Thr Leu Gln Gly Ser Pro Val Leu Gln Arg Asp Leu Ala Asn
 65   70   75   80

Pro Pro Pro Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
             85   90   95

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
             100   105   110

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly Gly Pro

115   120   125

<210> 168
<211> 57
<212> PRT
<213> Homo sapiens

<400> 168
Met His Pro Trp Arg Leu Ser Met Cys Pro Ala Cys Val Leu Ala Ala
 1   5   10   15

Leu Pro Ala Leu Cys Ser Cys Leu Cys Ser Pro Asp Ala Arg Pro Pro
             20   25   30

His Gly Trp Met Ser Met Pro Phe Thr Pro His Pro Leu Val Ser Arg
             35   40   45

Ala Met Pro Thr Cys His Pro Cys Ser
     50   55

<210> 169
<211> 97
<212> PRT
<213> Homo sapiens

<400> 169
Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr
 1   5   10   15

Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe
             20   25   30

Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln
             35   40   45

Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln
     50   55   60

Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Gly
 65   70   75   80

Cys Gln Gln Ala Pro Gly Thr Arg Pro Ser Leu Pro Pro Gly Ala Val
                 85   90   95

Gln

<210> 170
<211> 59
<212> PRT
<213> Homo sapiens

<400> 170
Met Thr Ser Phe Cys Glu Met Leu Lys Gly Ser Ala Ala Gly Cys Leu
 1   5   10   15

Val Leu Leu Ala Phe Ala Phe Tyr Leu Ala Cys Ser Phe Ser His Lys

                        20   25   30
        Thr Lys Ser His Ser His Tyr Ala Leu Phe Ile Leu Gln Asp Tyr Leu
                35   40   45

        Leu Gly Asn Phe Tyr Tyr Ile Pro Leu Ser Pro
                50   55

<210> 171
<211> 42
<212> PRT
<213> Homo sapiens

<400> 171
        Met Ser Val Ala His Met His Ala Cys Val Phe Leu Cys Ala Cys Val
         1   5   10   15

        Phe Cys Leu Ala Glu Asn Ala Leu Glu Ser Val Ile Ile Leu Cys Tyr
                        20   25   30

        Ser Tyr Asn Lys Asp Glu Val Arg Glu His
                35   40

<210> 172
<211> 54
<212> PRT
<213> Homo sapiens

<400> 172
        Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys
         1   5   10   15

        Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly
                        20   25   30

        Arg Arg Arg Lys Asn Ser Phe Leu Phe Leu Leu Ser Phe Ser Ile Glu
                35   40   45

        Phe Leu Leu Cys Val Trp
                50

<210> 173
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 173
        Met Cys Lys Ala Val Cys Lys His Arg Leu Xaa Leu Phe Ala Val Ser
         1   5   10   15

        Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu
                        20   25   30

        Trp Pro Val Arg Leu Ser Leu Ala Pro Arg Pro Val Gln Leu Gln Gln
                35   40   45

Arg Arg Ser His Cys
      50

<210> 174
<211> 53
<212> PRT
<213> Homo sapiens

<400> 174
Met Phe Thr Ala Pro Leu Phe Phe Phe Phe Phe Glu Ile Ile Asn
 1   5   10   15

Ser Met Arg Asn Leu Gly Leu Asn Ile Cys Leu Leu Cys Leu Leu Ile
              20   25   30

Glu His His Ser Arg Pro Ser Val Cys Leu Pro Phe Thr Pro Lys Ile
              35   40   45

Leu Thr Lys Lys Phe
      50

<210> 175
<211> 48
<212> PRT
<213> Homo sapiens

<400> 175
Met Leu Cys Phe Leu Pro Ile Pro Leu Leu Ser Ile Leu Ser Pro Gln
 1   5   10   15

Thr Gln Ala Ser Arg Leu Leu Asp Glu Thr Val Arg Arg Lys His Phe
              20   25   30

Leu Thr Tyr Pro Phe Gly Ile Ser Ser Ile Ile Thr Gln Ala Leu Leu
              35   40   45

<210> 176
<211> 224
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 176
Met Val Leu Val Ala Leu Ile Leu Leu His Ser Ala Leu Ala Gln Ser
 1   5   10   15

Arg Arg Asp Phe Ala Pro Pro Gly Gln Gln Lys Arg Glu Ala Pro Val

                        20   25   30

Asp Val Leu Thr Gln Ile Gly Arg Ser Val Arg Gly Thr Leu Asp Ala
        35   40   45

Trp Ile Gly Pro Glu Thr Met His Leu Val Ser Glu Ser Ser Ser Gln
        50   55   60

Val Leu Trp Ala Ile Ser Ser Ala Ile Ser Val Ala Phe Phe Ala Leu
65   70   75   80

Ser Gly Ile Ala Ala Gln Leu Leu Asn Ala Leu Gly Leu Ala Gly Asp
                85   90   95

Tyr Leu Ala Gln Gly Leu Lys Leu Ser Pro Gly Gln Val Gln Thr Phe
            100   105   110

Leu Leu Trp Gly Ala Gly Ala Leu Val Val Tyr Trp Leu Leu Ser Leu
        115   120   125

Leu Leu Gly Leu Val Leu Ala Leu Leu Gly Arg Ile Leu Trp Gly Leu
    130   135   140

Lys Leu Val Ile Phe Leu Ala Gly Phe Val Ala Leu Met Arg Ser Val
145   150   155   160

Pro Asp Pro Ser Thr Arg Ala Leu Leu Leu Leu Ala Leu Leu Ile Leu
            165   170   175

Tyr Ala Leu Leu Ser Arg Xaa Thr Gly Ser Arg Ala Ser Gly Ala Gln
            180   185   190

Leu Glu Ala Lys Val Arg Gly Leu Glu Arg Gln Val Glu Glu Leu Arg
        195   200   205

Trp Arg Gln Arg Gln Xaa Ala Lys Gly Ala Arg Ser Val Glu Glu Glu
    210   215   220

<210> 177
<211> 200
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (190)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 177
Met Leu Gln Arg Met Leu Ile Asp Val Xaa Xaa Phe Leu Phe Leu Phe
 1   5   10   15

Ala Val Trp Met Val Ala Phe Gly Val Ala Xaa Gln Gly Ile Leu Arg
            20   25   30

Gln Asn Glu Gln Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr Glu
        35   40   45

Pro Xaa Leu Ala Met Phe Gly Gln Val Pro Ser Xaa Val Asp Gly Thr
    50   55   60

Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys Pro
65   70   75   80

Leu Cys Val Xaa Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu Trp
            85   90   95

Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile Leu
            100   105   110

Leu Val Asn Leu Leu Val Ala Met Phe Gly Tyr Thr Val Gly Thr Val
        115   120   125

Gln Glu Asn Asn Asp Gln Val Trp Lys Phe Gln Arg Tyr Phe Leu Val
    130   135   140

Gln Glu Tyr Cys Ser Arg Leu Asn Ile Pro Phe Pro Phe Ile Val Phe
145   150   155   160

Ala Tyr Phe Tyr Met Val Val Lys Lys Cys Phe Lys Cys Cys Cys Lys
            165   170   175

Glu Xaa Asn Xaa Glu Ser Ser Val Cys Cys Ser Lys Met Xaa Thr Met
        180   185   190

Arg Leu Trp His Gly Arg Val Ser
        195   200

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<210> 178
<211> 93
<212> PRT
<213> Homo sapiens

<400> 178
Met Pro Arg Ala Thr Leu Trp Gly His Leu Ser Pro Ala Trp Val Leu
 1               5                  10                  15

Val Pro Trp Thr Pro Arg Ala Cys Gly Gln Ala Ala Pro Gly Arg Gly
                20                  25                  30

His Val Ala Ser Asp His Lys Ser Gly Leu Pro Trp Pro Lys His Cys
            35                  40                  45

Ser Cys Leu His Pro Arg Ala Ser Gln Pro Cys Leu Phe Ser Leu Asn
        50                  55                  60

Ser Asn Arg Thr Val Phe Thr Ala Ile Gln Arg Val Ala Leu Gly Trp
65                  70                  75                  80

Thr Phe Trp Val Gln Ala Asn Leu Val Pro Arg Cys Thr
                85                  90


<210> 179
<211> 404
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (236)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (239)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (309)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (335)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (389)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 179
Met His Pro Ile Pro Ser Ser Phe Met Ile Lys Ala Val Ser Ser Phe
  1   5   10   15

Leu Thr Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe Met
            20   25   30

Lys Val Leu Gln Ala Arg Lys Asn Xaa Thr Ser Thr Glu Leu Ile Val
        35   40   45

Glu Pro Glu Glu Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly Phe
    50   55   60

Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Xaa Ile Ser Thr
65   70   75   80

Leu Ser Tyr Ile Leu Pro Tyr Phe Ser Ala Val Asn Leu Asp Val Xaa
            85   90   95

```
Ser Xaa Leu Leu Pro Phe Ile Lys Leu Pro Thr Xaa Gly Asn Ser Leu
        100                 105             110

Ala Lys Ile Gln Thr Val Gly Gln Asn Xaa Gln Xaa Val Xaa Arg Val
        115                 120             125

Leu Met Gly Pro Arg Ser Ile Gln Lys Arg His Phe Lys Glu Val Gly
        130                 135             140

Arg Gln Ser Ile Arg Arg Glu Gln Gly Ala Gln Ala Ser Val Glu Asn
145                 150             155                 160

Ala Ala Glu Glu Lys Arg Leu Gly Ser Pro Ala Pro Arg Glu Xaa Glu
                165             170             175

Gln Pro His Thr Gln Gln Gly Pro Glu Lys Leu Ala Gly Asn Ala Xaa
        180                 185             190

Tyr Thr Lys Pro Ser Phe Thr Gln Glu His Lys Ala Ala Val Ser Val
        195                 200             205

Leu Xaa Pro Phe Ser Lys Gly Ala Pro Ser Thr Ser Ser Pro Ala Lys
    210                 215             220

Ala Leu Pro Gln Val Arg Asp Arg Trp Lys Asp Xaa Thr His Xaa Ile
225                 230             235                 240

Ser Ile Leu Glu Ser Ala Lys Ala Arg Val Thr Asn Met Lys Ala Ser
                245             250             255

Lys Pro Ile Ser His Ser Arg Lys Lys Tyr Arg Phe His Lys Thr Arg
            260             265             270

Ser Arg Met Thr His Arg Thr Pro Lys Val Lys Lys Ser Pro Lys Phe
        275             280             285

Arg Lys Lys Ser Tyr Leu Ser Arg Leu Met Leu Ala Asn Arg Pro Pro
        290             295             300

Phe Ser Ala Ala Xaa Ser Leu Ile Asn Ser Pro Ser Gln Gly Ala Phe
305             310             315                 320

Ser Ser Leu Gly Asp Leu Ser Pro Gln Glu Asn Pro Phe Leu Xaa Val
            325                 330             335

Ser Ala Pro Ser Glu His Phe Ile Glu Thr Thr Asn Ile Lys Asp Thr
            340             345             350

Thr Ala Arg Asn Ala Leu Glu Glu Asn Val Phe Met Glu Asn Thr Asn
        355             360             365

Met Pro Glu Val Thr Ile Ser Glu Asn Thr Asn Tyr Asn His Pro Pro
    370             375             380

Glu Ala Asp Ser Xaa Gly Thr Ala Phe Asn Leu Gly Pro Thr Val Lys
385             390             395             400

Gln Thr Glu Thr
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<210> 180
<211> 387
<212> PRT
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<213> Homo sapiens

<220>
<221> SITE
<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (359)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 180

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Met Gly Ala Phe Leu Asp Lys Pro Lys Thr Glu Lys His Asn Ala His
 1               5                  10                  15

Gly Ala Gly Asn Gly Leu Arg Tyr Gly Leu Ser Ser Met Gln Gly Trp
            20                  25                  30

Arg Val Glu Met Glu Asp Ala His Thr Ala Val Val Gly Ile Pro His
            35                  40                  45

Gly Leu Glu Asp Trp Ser Phe Phe Ala Val Tyr Asp Gly His Ala Gly
        50                  55                  60

Ser Arg Val Ala Asn Tyr Cys Ser Thr His Leu Leu Glu His Ile Thr
 65                  70                  75                  80

Thr Asn Glu Asp Phe Arg Ala Ala Gly Lys Ser Gly Ser Ala Leu Glu
                85                  90                  95

Leu Ser Val Glu Asn Val Lys Asn Gly Ile Arg Thr Gly Phe Leu Lys
            100                 105                 110

Ile Asp Glu Tyr Met Arg Asn Phe Ser Asp Leu Arg Asn Gly Met Asp
        115                 120                 125

Arg Ser Gly Ser Thr Ala Val Gly Val Met Ile Ser Pro Lys His Ile
        130                 135                 140

Tyr Phe Ile Asn Cys Gly Asp Ser Arg Ala Val Leu Tyr Arg Asn Gly
145                 150                 155                 160

Gln Val Cys Phe Ser Thr Gln Asp His Lys Pro Cys Asn Pro Arg Glu
                165                 170                 175

Lys Glu Arg Ile Gln Asn Ala Gly Gly Ser Val Met Ile Gln Arg Val
            180                 185                 190

Asn Gly Ser Leu Ala Val Ser Arg Ala Leu Gly Asp Tyr Asp Tyr Lys
            195                 200                 205

Cys Val Asp Gly Lys Gly Pro Thr Glu Gln Leu Val Ser Pro Glu Pro
    210                 215                 220

Glu Val Tyr Xaa Ile Leu Arg Ala Glu Glu Asp Glu Phe Ile Ile Leu
225                 230                 235                 240

Ala Cys Asp Gly Ile Trp Asp Val Met Ser Asn Glu Glu Leu Cys Glu
                245                 250                 255

Tyr Val Lys Ser Arg Leu Glu Val Ser Asp Asp Leu Glu Asn Val Cys
            260                 265                 270

Asn Trp Val Val Asp Thr Cys Leu His Lys Gly Ser Arg Asp Asn Met
            275                 280                 285
```

Ser Ile Val Leu Val Cys Phe Ser Asn Ala Pro Lys Val Ser Asp Glu
   290   295   300

Ala Val Lys Lys Asp Ser Glu Leu Asp Lys His Leu Glu Ser Arg Val
305   310   315   320

Glu Glu Ile Met Glu Lys Ser Gly Glu Glu Gly Met Pro Asp Leu Ala
             325   330   335

His Val Met Arg Ile Leu Ser Ala Glu Asn Ile Pro Asn Leu Pro Pro
             340   345   350

Gly Gly Gly Leu Ala Gly Xaa Arg Asn Val Ile Glu Ala Val Tyr Ser
         355   360   365

Arg Leu Asn Pro His Arg Glu Ser Asp Gly Gly Ala Gly Asp Leu Glu
   370   375   380

Asp Pro Trp
385

<210> 181
<211> 145
<212> PRT
<213> Homo sapiens

<400> 181
Met Ala Phe Phe Thr Gly Leu Trp Gly Pro Phe Thr Cys Val Ser Arg
  1   5   10   15

Val Leu Ser His His Cys Phe Ser Thr Thr Gly Ser Leu Ser Ala Ile
             20   25   30

Gln Lys Met Thr Arg Val Arg Val Val Asp Asn Ser Ala Leu Gly Asn
         35   40   45

Ser Pro Tyr His Arg Ala Pro Arg Cys Ile His Val Tyr Lys Lys Asn
   50   55   60

Gly Val Gly Lys Val Gly Asp Gln Ile Leu Leu Ala Ile Lys Gly Gln
65   70   75   80

Lys Lys Lys Ala Leu Ile Val Gly His Cys Met Pro Gly Pro Arg Met
             85   90   95

Thr Pro Arg Phe Asp Ser Asn Asn Val Val Leu Ile Glu Asp Asn Gly
             100   105   110

Asn Pro Val Gly Thr Arg Ile Lys Thr Pro Ile Pro Thr Ser Leu Arg
         115   120   125

Lys Arg Glu Gly Glu Tyr Ser Lys Val Leu Ala Ile Ala Gln Asn Phe
   130   135   140

Val
145

<210> 182
<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 182
Met Phe Phe Ser Leu Pro Gly Leu Trp Gln Ile Ala Ser Phe Thr His
 1   5   10   15

Asn Leu Ile Phe His Leu Trp Val Trp Gly Ser Glu Ser Gly Glu His
            20   25   30

Leu Gln Ser His Asn Asp Pro Asp Thr Arg Gln Gly Gly His Ile Pro
         35   40   45

Ile Arg Leu Leu Gly Glu Ser Ser Ala Ser Val Pro Gly Ser Ser Glu
     50   55   60

Gly His Thr Gly Gly Pro Ala Pro Pro Arg Val Gly Gly Ser Ala Gly
 65   70   75   80

Ile Ile Arg Thr His Val Val Phe Leu Val Ser Trp Pro Leu Leu Gln
                85   90   95

Arg Glu Gln His Arg Leu Ser Trp Lys Leu Pro Ser Val Met Trp Gly
            100   105   110

Asp Ser Arg Glu Pro His Leu Ala Arg Leu Asp Gln Ser Lys Trp Pro
            115   120   125

Xaa Ala Thr Xaa Ala Xaa Gln Tyr Leu Gly Arg Gly
    130   135   140

<210> 183
<211> 127
<212> PRT
<213> Homo sapiens

<400> 183
Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
 1   5   10   15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
            20   25   30

Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
         35   40   45

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
     50   55   60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
 65   70   75   80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
             85   90   95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
         100   105   110

Ile Ile Ser Asp Asn Ala Leu Thr Met Thr Ala Ser Thr Trp Arg
       115   120   125

<210> 184
<211> 146
<212> PRT
<213> Homo sapiens

<400> 184
Met Gln Gln Ser Arg Leu Leu Leu Pro Phe Leu Phe Phe Leu Leu Glu
  1   5   10   15

Gly Cys Ala Pro Ser Ser Leu Gly Pro Gly Ala Ala Pro Gly Ser Gly
         20   25   30

His Ser Leu Gly Pro Pro Gly Ser Pro Gly Ala Pro Gly Pro Gln Pro
       35   40   45

Ala Val Gly Pro Ser Ser Pro Cys Gln Pro Gly Pro Ser Pro Ser Ser
     50   55   60

Pro Ala Ala Ala Ala Ala Ser Ser Gln Ser Ser Val Ala Ser Trp Pro
65   70   75   80

Cys Thr Leu Arg Cys Ala Ala Pro Ser Pro Asp Ala Ser Ala Leu Arg
         85   90   95

Pro Ala Ala Ser Pro Ala Ala Thr Pro Ala Trp Ser Pro Gly Ser Gly
         100   105   110

Thr Ile Arg Val Leu Arg Pro Pro Ala Pro Ala Ala Ala Pro Ala Thr
       115   120   125

Ala Ile Thr Asn Arg Gly Pro Pro Arg Arg Arg Arg Arg Asn Ala Arg
     130   135   140

Thr Ala
145

<210> 185
<211> 68
<212> PRT
<213> Homo sapiens

<400> 185
Met Lys Pro Thr Arg Ser Leu Trp Ile Ser Phe Leu Met Cys Cys Trp
  1   5   10   15

Ile Trp Phe Ala Asn Ile Leu Leu Arg Ile Phe Ala Ser Val Phe Phe
         20   25   30

Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Cys Cys Val Ser Ala Arg
       35   40   45

Leu Trp Tyr Gln Asp Asp Ala Gly Leu Ile Asn Glu Leu Gly Arg Ile

```
        50                      55                        60
Pro Ser Phe Tyr
 65


<210> 186
<211> 51
<212> PRT
<213> Homo sapiens

<400> 186
Met Thr Pro Val Phe Arg Ala Trp Gly Leu Trp Val Tyr Val Leu Pro
 1               5                  10                   15

Thr Gly Phe Pro Gly Pro Cys Cys Met Met Leu Leu Glu Leu Phe Pro
            20                  25                   30

Lys Glu Ser Val Pro Gln Ala Tyr Gln Gly Ile Leu Leu Tyr Leu His
        35                  40                   45

Phe Gly Phe
        50


<210> 187
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 187
Met Gly Met Pro Leu Val Thr Val Thr Ala Ala Thr Phe Pro Thr Leu
 1               5                  10                   15

Ser Cys Pro Pro Arg Ala Trp Pro Glu Val Glu Ala Pro Glu Ala Pro
            20                  25                   30

Ala Leu Pro Val Val Pro Glu Leu Pro Glu Val Pro Met Glu Met Pro
        35                  40                   45

Leu Val Leu Pro Pro Glu Leu Glu Leu Leu Ser Leu Glu Ala Val His
    50                  55                  60

Arg Tyr Gln Xaa Gly Gly Thr Leu Met Gly Trp Thr Arg Ala Glu Ala
 65             70                  75                   80

Ser Ala Asn Gly Ser
                85


<210> 188
<211> 191
<212> PRT
<213> Homo sapiens

<400> 188
Met Gly Asp His Leu Asp Leu Leu Leu Gly Val Val Leu Met Ala Gly
 1               5                  10                   15
```

```
Pro Val Phe Gly Ile Pro Ser Cys Ser Phe Asp Gly Arg Ile Ala Phe
            20              25                  30

Tyr Arg Phe Cys Asn Leu Thr Gln Val Pro Gln Val Leu Asn Thr Thr
        35              40                  45

Glu Arg Leu Leu Leu Ser Phe Asn Tyr Ile Arg Thr Val Thr Ala Ser
    50              55                  60

Ser Phe Pro Phe Leu Glu Gln Leu Gln Leu Leu Glu Leu Gly Ser Gln
65              70                  75                  80

Tyr Thr Pro Leu Thr Ile Asp Lys Glu Ala Phe Arg Asn Leu Pro Asn
            85                  90                  95

Leu Arg Ile Leu Asp Leu Gly Ser Ser Lys Ile Tyr Phe Leu His Pro
            100             105                 110

Asp Ala Phe Gln Gly Leu Phe His Leu Phe Glu Leu Arg Leu Tyr Phe
        115             120                 125

Cys Gly Leu Ser Asp Ala Val Leu Lys Asp Gly Tyr Phe Arg Asn Leu
    130             135                 140

Lys Ala Leu Thr Arg Leu Asp Leu Ser Lys Asn Gln Ile Arg Ser Leu
145             150                 155                 160

Tyr Leu His Pro Ser Phe Gly Lys Leu Asn Ser Leu Lys Ser Ile Asp
            165             170                 175

Phe Ser Ser Asn Gln Ile Phe Leu Val Cys Glu His Glu Leu Glu
        180             185                 190
```

<210> 189
<211> 231
<212> PRT
<213> Homo sapiens

<400> 189
```
Met Trp Ala Leu Gln Leu Ser Leu Pro Thr Cys Gly Leu Ala Ala Leu
 1               5                  10                  15

Leu Thr His Met Arg Pro Cys Ser Ser Pro Tyr Pro His Ala Gly Leu
            20              25                  30

Ala Ala Leu Leu Thr His Met Gly Pro Cys Arg Ser Pro Tyr Pro His
        35              40                  45

Gly Gly Leu Ala Ala Val Leu Thr His Met Arg Ala Leu Gln Leu Ser
    50              55                  60

Leu Pro Thr Trp Gly Leu Ala Ala Leu Leu Thr His Met Arg Pro Cys
65              70                  75                  80

Ser Ser Pro Tyr Pro His Ala Gly Leu Ala Cys Cys Trp Leu Trp Ser
            85              90                  95

Leu Ser Ser His Arg Ser Leu Gln Val Gln Ala Thr His Arg Leu Val
            100             105                 110

Val Arg Thr Ile Lys Asp Arg Val Met Leu Lys Val Leu Pro Gln Thr
            115             120                 125
```

```
Arg Arg Arg Gly Pro Phe Leu Ser Ser Cys Arg Asn Asp Val Met Arg
    130             135         140
```

```
Asn Cys Val Pro Arg His Ala Val Leu Val Thr Thr Cys Val Phe Val
145             150             155                 160
```

```
Ser Phe Pro Thr His Cys Lys Val Gly Ile Thr Gly Pro Ile Thr Gln
            165             170             175
```

```
Val Lys Gln Lys Pro Gly Asn His Ser Ser Pro Cys Pro Val Ile Gln
            180             185             190
```

```
Leu Val Ala Lys Ala Glu Phe Glu Leu Met Leu Pro Ser Val Pro Lys
            195             200             205
```

```
Pro Val Tyr Leu Thr Leu Val Leu Ser Cys Trp Cys Leu Cys Asp Val
    210             215             220
```

```
Pro Cys Leu Ser Val Ser Leu
225             230
```

```
<210> 190
<211> 68
<212> PRT
<213> Homo sapiens
```

```
<400> 190
Met Tyr Leu Glu Val Ala Val Arg Pro Phe Leu Ile Ile Val Ala Phe
  1             5              10                  15
```

```
Leu Gly Leu Ser Phe Leu Ala Leu Gln Met Pro Phe Trp Gln Gly Ser
            20             25             30
```

```
Ala Val Gly His Leu Arg Ala Gly Gly Ala Gly Val Ala His Leu Ser
            35             40             45
```

```
Gln Ala Gly Ile Ile Gln Ala Pro Val His Ser Gly Arg Glu Gly Gln
    50             55             60
```

```
Pro Pro Pro Gly
 65
```

```
<210> 191
<211> 211
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 191
Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
  1             5              10                  15
```

```
Leu Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
```

```
                20                      25                      30
Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
         35                      40                      45

Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Gly Asn Leu
         50                      55                      60

Leu Arg Gly Ile Asp Ser Leu Phe Ser Ala Pro Met Asp Phe Arg Gly
65                      70                      75                      80

Leu Pro Gly Asn Tyr His Lys Glu Glu Asn Gln Glu His Gln Leu Gly
                85                      90                      95

Asn Asn Thr Xaa Ser Ser Xaa Leu Gln Ile Asp Lys Val Pro Arg Met
                100                     105                     110

Glu Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser Phe
         115                     120                     125

His Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu Pro
         130                     135                     140

Arg Arg Arg Ser His Gln Asp Ala Leu Glu Gly Gly His Trp Leu Ser
145                     150                     155                     160

Glu Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys Gly
                165                     170                     175

Thr His Lys Asp Val Leu Glu Glu Gly Thr Glu Ser Ser Ser His Ser
                180                     185                     190

Arg Leu Ser Pro Arg Lys Thr His Leu Leu Tyr Ile Leu Arg Pro Ser
                195                     200                     205

Arg Gln Leu
         210


<210> 192
<211> 90
<212> PRT
<213> Homo sapiens

<400> 192
Met Leu Val Val Ser Thr Val Ile Ile Val Phe Trp Glu Phe Ile Asn
    1               5                       10                      15

Ser Thr Glu Gly Ser Phe Leu Trp Ile Tyr His Ser Lys Asn Pro Glu
                20                      25                      30

Val Asp Asp Ser Ser Ala Gln Lys Gly Trp Trp Phe Leu Ser Trp Phe
            35                      40                      45

Asn Asn Gly Ile His Asn Tyr Gln Gln Gly Glu Glu Asp Ile Asp Lys
         50                      55                      60

Glu Lys Gly Arg Glu Glu Thr Lys Gly Arg Lys Met Thr Gln Gln Ser
65                      70                      75                      80

Phe Gly Tyr Gly Thr Gly Leu Ile Gln Thr
                85                      90
```

<210> 193
<211> 62
<212> PRT
<213> Homo sapiens

<400> 193
Met Glu Leu Met Ala Leu Phe Phe Arg Thr Thr Thr Val Ala Ala Met
1   5   10   15

Ala Ser Arg Gly Ala Leu Ala Leu Phe Leu Arg Lys Ile Leu Ser Glu
            20   25   30

Ala Lys Phe Lys Leu Ser Leu Thr Pro Gln Pro Pro Gln Pro Phe Tyr
        35   40   45

Ile Tyr Met Ala Tyr Tyr Ser Glu Asn Phe Phe Leu Lys Phe
    50   55   60

<210> 194
<211> 295
<212> PRT
<213> Homo sapiens

<400> 194
Met Leu Cys Cys Trp Phe Pro Trp Arg Ile Leu Ala Ala Gly Gln Val
1   5   10   15

Pro Tyr Ser Pro His Ser Pro Gln Val Ala Gly Cys Asp Leu Thr Arg
            20   25   30

Cys Glu Ser Gly Gly Ala Arg Ala Leu Ser Ile Gln Arg Ala Ala Leu
        35   40   45

Val Val Leu Glu Asn Tyr Tyr Lys Asp Phe Thr Ile Tyr Asn Pro Asn
    50   55   60

Leu Leu Thr Ala Ser Lys Phe Arg Ala Ala Lys His Met Ala Gly Leu
65   70   75   80

Lys Val Tyr Asn Val Asp Gly Pro Ser Asn Asn Ala Thr Gly Gln Ser
            85   90   95

Arg Ala Met Ile Ala Ala Ala Arg Arg Arg Asp Ser Ser His Asn
        100   105   110

Glu Leu Tyr Tyr Glu Glu Ala Glu His Glu Arg Arg Val Lys Lys Arg
        115   120   125

Lys Ala Arg Leu Val Val Ala Val Glu Glu Ala Phe Ile His Ile Gln
    130   135   140

Arg Leu Gln Ala Glu Glu Gln Gln Lys Ala Pro Gly Glu Val Met Asp
145   150   155   160

Pro Arg Glu Ala Ala Gln Ala Ile Phe Pro Ser Met Ala Arg Ala Leu
            165   170   175

Gln Lys Tyr Leu Arg Ile Thr Arg Gln Gln Asn Tyr His Ser Met Glu
        180   185   190

Ser Ile Leu Gln His Leu Ala Phe Cys Ile Thr Asn Gly Met Thr Pro
        195   200   205

Lys Ala Phe Leu Glu Arg Tyr Leu Ser Ala Gly Pro Thr Leu Gln Tyr

```
        210                    215                    220
Asp Lys Asp Arg Trp Leu Ser Thr Gln Trp Arg Leu Val Ser Asp Glu
225                 230                 235                 240

Ala Val Thr Asn Gly Leu Arg Asp Gly Ile Val Phe Val Leu Lys Cys
                245                 250                 255

Leu Asp Phe Ser Leu Val Val Asn Val Lys Lys Ile Pro Phe Ile Ile
            260                 265                 270

Leu Ser Glu Glu Phe Ile Asp Pro Lys Ser His Lys Phe Val Leu Arg
        275                 280                 285

Leu Gln Ser Glu Thr Ser Val
    290                 295


<210> 195
<211> 295
<212> PRT
<213> Homo sapiens

<400> 195
Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
  1               5                  10                  15

Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
                20                  25                  30

Arg Pro Glu Asp Ala Val Ala Pro Arg Lys Arg Ala Arg Arg Gln Arg
            35                  40                  45

Ala Arg Leu Gln Gly Ser Ala Thr Ala Ala Glu Ala Ser Leu Leu Arg
        50                  55                  60

Arg Thr His Leu Cys Ser Leu Ser Lys Ser Asp Thr Arg Leu His Glu
 65                  70                  75                  80

Leu His Arg Gly Pro Arg Ser Ser Arg Ala Leu Arg Pro Ala Ser Met
                85                  90                  95

Asp Leu Leu Arg Pro His Trp Leu Glu Val Ser Arg Asp Ile Thr Gly
            100                 105                 110

Pro Gln Ala Ala Pro Ser Ala Phe Pro His Gln Glu Leu Pro Arg Ala
        115                 120                 125

Leu Pro Ala Ala Ala Ala Thr Ala Gly Cys Ala Gly Leu Glu Ala Thr
    130                 135                 140

Tyr Ser Asn Val Gly Leu Ala Ala Leu Pro Gly Val Ser Leu Ala Ala
145                 150                 155                 160

Ser Pro Val Val Ala Glu Tyr Ala Arg Val Gln Lys Arg Lys Gly Thr
                165                 170                 175

His Arg Ser Pro Gln Glu Pro Gln Gln Gly Lys Thr Glu Val Thr Pro
            180                 185                 190

Ala Ala Gln Val Asp Val Leu Tyr Ser Arg Val Cys Lys Pro Lys Arg
        195                 200                 205

Arg Asp Pro Gly Pro Thr Thr Asp Pro Leu Asp Pro Lys Gly Gln Gly
    210                 215                 220
```

Ala Ile Leu Ala Leu Ala Gly Asp Leu Ala Tyr Gln Thr Leu Pro Leu
225   230   235   240

Arg Ala Leu Asp Val Asp Ser Gly Pro Leu Glu Asn Val Tyr Glu Ser
            245   250   255

Ile Arg Glu Leu Gly Asp Pro Ala Gly Arg Ser Ser Thr Cys Gly Ala
        260   265   270

Gly Thr Pro Pro Ala Ser Ser Cys Pro Ser Leu Gly Arg Gly Trp Arg
        275   280   285

Pro Leu Pro Ala Ser Leu Pro
    290   295

<210> 196
<211> 338
<212> PRT
<213> Homo sapiens

<400> 196
Met Met Arg Thr Cys Val Leu Leu Ser Ala Val Leu Trp Cys Leu Thr
1   5   10   15

Gly Val Gln Cys Pro Arg Phe Thr Leu Phe Asn Lys Lys Gly Phe Ile
            20   25   30

Tyr Gly Lys Thr Gly Gln Pro Asp Lys Ile Tyr Val Glu Leu His Gln
        35   40   45

Asn Ser Pro Val Leu Ile Cys Met Asp Phe Lys Leu Ser Lys Lys Glu
    50   55   60

Ile Val Asp Pro Thr Tyr Leu Trp Ile Gly Pro Asn Glu Lys Thr Leu
65   70   75   80

Thr Gly Asn Asn Arg Ile Asn Ile Thr Glu Thr Gly Gln Leu Met Val
            85   90   95

Lys Asp Phe Leu Glu Pro Leu Ser Gly Leu Tyr Thr Cys Thr Leu Ser
        100   105   110

Tyr Lys Thr Val Lys Ala Glu Thr Gln Glu Glu Lys Thr Val Lys Lys
        115   120   125

Arg Tyr Asp Phe Met Val Phe Ala Tyr Arg Glu Pro Asp Tyr Ser Tyr
    130   135   140

Gln Met Ala Val Arg Phe Thr Thr Arg Ser Cys Ile Gly Arg Tyr Asn
145   150   155   160

Asp Val Phe Phe Arg Val Leu Lys Lys Ile Leu Asp Ile Leu Ile Ser
            165   170   175

Asp Leu Ser Cys His Val Ile Glu Pro Ser Tyr Lys Cys His Ser Val
        180   185   190

Glu Ile Pro Glu His Gly Leu Ile His Glu Leu Phe Ile Ala Phe Gln
        195   200   205

Val Asn Pro Phe Ala Pro Gly Trp Lys Gly Ala Cys Asn Gly Ser Val
    210   215   220

```
Asp Cys Glu Asp Thr Thr Asn His Asn Ile Leu Gln Ala Arg Asp Arg
225             230             235                 240

Ile Glu Asp Phe Phe Arg Ser Gln Ala Tyr Ile Phe Tyr His Asn Phe
            245             250             255

Asn Lys Thr Leu Pro Ala Met His Phe Val Asp His Ser Leu Gln Val
            260             265             270

Val Arg Leu Asp Ser Cys Arg Pro Gly Phe Gly Lys Asn Glu Arg Leu
        275             280             285

His Ser Asn Cys Ala Ser Cys Cys Val Val Cys Ser Pro Ala Thr Phe
        290             295             300

Ser Pro Asp Val Asn Val Thr Cys Gln Thr Cys Val Ser Val Leu Thr
305             310             315             320

Tyr Gly Ala Lys Ser Cys Pro Gln Thr Ser Asn Lys Asn Gln Gln Tyr
            325             330             335

Glu Asp
```

```
<210> 197
<211> 78
<212> PRT
<213> Homo sapiens

<400> 197
Met Gln Gln Arg Gly Ala Ala Gly Ser Arg Gly Cys Ala Leu Phe Pro
 1               5               10                  15

Leu Leu Gly Val Leu Phe Phe Gln Val Ser Ala Pro Ala Gly Tyr Ala
            20              25                  30

Pro Leu Pro Ala Gly Gly Leu Gly Lys Met Val Ala Phe Pro Val Pro
        35              40                  45

Gly Arg Gly Val Ser Arg Lys Pro Pro His Ser Ser Gly Lys Glu Gly
    50              55                  60

Gly Arg Glu Arg Asp Val Gly Thr Met Ser Ser Pro Pro Arg
65              70              75
```

```
<210> 198
<211> 181
<212> PRT
<213> Homo sapiens

<400> 198
Met Met Leu Met Pro Tyr Gly Ala Leu Ile Ile Gly Phe Val Cys Gly
 1               5               10                  15

Ile Ile Ser Thr Leu Gly Phe Val Tyr Leu Thr Pro Phe Leu Glu Ser
            20              25                  30

Arg Leu His Ile Gln Asp Thr Cys Gly Ile Asn Asn Leu His Gly Ile
            35              40                  45

Pro Gly Ile Ile Gly Gly Ile Val Gly Ala Val Thr Ala Ala Ser Ala
    50              55                  60
```

Ser Leu Glu Val Tyr Gly Lys Glu Gly Leu Val His Ser Phe Asp Phe
65   70   75   80

Gln Gly Phe Asn Gly Asp Trp Thr Ala Arg Thr Gln Gly Lys Phe Gln
                85   90   95

Ile Tyr Gly Leu Leu Val Thr Leu Ala Met Ala Leu Met Gly Gly Ile
            100   105   110

Ile Val Gly Leu Ile Leu Arg Leu Pro Phe Trp Gly Gln Pro Ser Asp
            115   120   125

Glu Asn Cys Phe Glu Asp Ala Val Tyr Trp Glu Met Pro Glu Gly Asn
    130   135   140

Ser Thr Val Tyr Ile Pro Glu Asp Pro Thr Phe Lys Pro Ser Gly Pro
145   150   155   160

Ser Val Pro Ser Val Pro Met Val Ser Pro Leu Pro Met Ala Ser Ser
                165   170   175

Val Pro Leu Val Pro
            180

<210> 199
<211> 79
<212> PRT
<213> Homo sapiens

<400> 199
Met Leu Ser Leu Asp Phe Leu Asp Asp Val Arg Arg Met Asn Lys Arg
 1   5   10   15

Gln Val Ser Leu Ser Val Leu Phe Phe Ser Trp Leu Phe Leu Ser Leu
            20   25   30

Arg Gly Cys Cys Cys Gly Ala Arg Arg Thr Pro Gly Phe Trp Cys Glu
            35   40   45

Gly Leu Ser Trp Ser Asp Thr Arg Val Ile Arg Phe Leu Trp Arg Leu
    50   55   60

Trp Pro Glu Ala Ala Leu Ser Ala Ser Leu Phe Leu Thr Pro Asn
 65   70   75

<210> 200
<211> 69
<212> PRT
<213> Homo sapiens

<400> 200
Met Glu Pro Arg Ser Phe Leu Leu Pro Glu Leu Gly Gly Arg Val Ser
 1   5   10   15

His Ile Pro Leu Gly Leu Thr Leu Val Phe Ala Cys Phe Leu Met Val
            20   25   30

Arg Glu Thr Ala Gly Gly Phe Ser Phe Arg Ala Gly Asp Leu Glu Glu
            35   40   45

Ile Ser Arg Lys Arg Thr Asn Val Leu Gly Ser Leu Arg Gly Thr Glu

```
        50                    55                    60
Leu Ile Gly Tyr Ile
 65


<210> 201
<211> 271
<212> PRT
<213> Homo sapiens

<400> 201
Met Thr Gln Gly Lys Leu Ser Val Ala Asn Lys Ala Pro Gly Thr Glu
 1               5                  10                  15

Gly Gln Gln Gln Val His Gly Glu Lys Lys Glu Ala Pro Ala Val Pro
             20                  25                  30

Ser Ala Pro Pro Ser Tyr Glu Glu Ala Thr Ser Gly Glu Gly Met Lys
             35                  40                  45

Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro Leu His Pro Ser
         50                  55                  60

Trp Ala Tyr Val Asp Pro Ser Ser Ser Ser Ser Tyr Asp Asn Gly Phe
 65                  70                  75                  80

Pro Thr Gly Asp His Glu Leu Phe Thr Thr Phe Ser Trp Asp Asp Gln
                 85                  90                  95

Lys Val Arg Arg Val Phe Val Arg Lys Val Tyr Thr Ile Leu Leu Ile
             100                 105                 110

Gln Leu Leu Val Thr Leu Ala Val Val Ala Leu Phe Thr Phe Cys Asp
         115                 120                 125

Pro Val Lys Asp Tyr Val Gln Ala Asn Pro Gly Trp Tyr Trp Ala Ser
         130                 135                 140

Tyr Ala Val Phe Phe Ala Thr Tyr Leu Thr Leu Ala Cys Cys Ser Gly
145                 150                 155                 160

Pro Arg Arg His Phe Pro Trp Glu Pro Asp Ser Pro Asp Arg Leu Tyr
                 165                 170                 175

Pro Val His Gly Leu Pro His Trp Asp Ala Val Gln Leu Leu Gln His
             180                 185                 190

His Leu Arg Ala Ala Val Pro Gly His His Gly Pro Cys Leu Pro Leu
         195                 200                 205

Ser His Arg Leu Gln Leu Pro Asp Gln Val Arg Leu His Leu Leu Pro
         210                 215                 220

Gly Arg Ala Leu Arg Ala Ser His Asp Ser Phe Leu Gln Arg Thr His
225                 230                 235                 240

Pro Gly His Pro Pro Thr Leu Pro Ile Cys Ala Leu Ala Pro Cys Ser
                 245                 250                 255

Leu Cys Ser Thr Gly Ser Gly Cys Ile Tyr Ile Val Pro Gly Thr
                 260                 265                 270
```

<210> 202
<211> 51
<212> PRT
<213> Homo sapiens

<400> 202
Met Lys Cys Thr Ala Val Phe Ala Pro Ser Ala Trp Pro Asn Thr Leu
 1   5   10   15

Ser Leu Leu Val Ser Leu His Thr Val Met Cys Ile Asn Trp His Leu
            20   25   30

Val Ser Ala Ser His Met His Ile Gly Arg Ile Val Ile Leu Glu Gly
        35   40   45

Asp Gly Met
    50

<210> 203
<211> 71
<212> PRT
<213> Homo sapiens

<400> 203
Met Pro Asn Thr Phe His Thr Tyr Arg Pro Ile Leu Leu Leu Leu Leu
 1   5   10   15

Leu Pro Ser Ser Ser His Gln Asn Met Ile Val Ser Leu Pro Gln Asn
            20   25   30

Met Tyr Phe Leu Ile Ala Val Ala Lys Arg Leu Cys Ala Glu Ser Leu
        35   40   45

Ala Ser Asp Pro Ala Pro Cys Asn Leu Ser Ala Leu Gln Ala Lys Pro
    50   55   60

Arg Pro Arg Leu Arg His Tyr
 65   70

<210> 204
<211> 60
<212> PRT
<213> Homo sapiens

<400> 204
Met Leu Tyr Trp Gly Asn Val Ala Leu Val Leu Pro Thr Pro Tyr Leu
 1   5   10   15

His Leu Ser Leu Thr Leu Leu Leu Ser Pro Glu Trp Leu Gly Glu Met
            20   25   30

Gly Arg Gly Leu Pro Trp Pro Gly His Leu Val Ala Ala Trp Leu Asp
        35   40   45

His Ile Ala Asn Glu Leu Gly Arg Gly Ala Ile Phe
    50   55   60

<210> 205
<211> 143
<212> PRT

<213> Homo sapiens

<400> 205

```
Met Lys Trp Glu Arg Gly Ser Pro Met Val Leu Leu Ala Leu Val Tyr
 1               5                  10                  15

Asp Val Cys Cys Ala Ser Arg Arg Gly Gly Gln Ser His Pro Thr Ser
            20                  25                  30

Gly Ser Asp Val Leu Pro Leu Pro Val Pro Ala Leu Ala Gln Pro Ala
            35                  40                  45

Gln Pro Ser Arg Leu Asp Ala Cys Ala Lys Ala Arg Gly Ser Gln Arg
    50                  55                  60

Ala Ala Gly Trp Pro Arg Ala Gly Ser Arg Leu Gly Pro Ala Val Gly
65                  70                  75                  80

Arg Ala Ala Ser Pro Ser Ser Leu Gln Thr His Gly Ser Ser Ser Gln
            85                  90                  95

Ser Ser Arg Gln Leu Pro Gly Pro Glu Met Ser Ser Ser Pro Pro Trp
            100                 105                 110

Gly Gln Ala Leu Pro Trp Pro Ser Ser Val Asn Pro Ser Phe Leu Cys
            115                 120                 125

Ala Val Ser Gly Leu Leu Thr Val Val Cys Val Cys Ala Arg Leu
    130                 135                 140
```

<210> 206
<211> 148
<212> PRT
<213> Homo sapiens

<400> 206

```
Met Gln Phe Ile Leu Thr Gly Ile Thr Leu Ser Gly Tyr Leu Phe Thr
 1               5                  10                  15

Phe Ser Ala Cys Ala Val Leu Ser Ala Ser Ile Thr Val Trp Gly Leu
            20                  25                  30

Met Glu Cys Leu Ile His Arg His Gly Ser His Thr Thr Glu His Leu
            35                  40                  45

Thr Arg Thr Leu Thr Ser Gln Gln Ser Ser Arg Gly His Leu Ser Leu
    50                  55                  60

Ser His Ser Thr Thr Gln Ser Asn Gln Pro Glu Arg Thr Leu Ala Leu
65                  70                  75                  80

Leu Thr Gly Gly Thr Ala Asp Leu Ser Val Trp Arg Gln His Ser Pro
            85                  90                  95

Lys Met Gly Ala Ile Phe Gln Asp Ala Val Phe Ala Leu Asp Ser Gln
            100                 105                 110

Ala Tyr Leu Trp Gly Ile Val Ser Asn Arg Glu Asn Ile Trp Val Leu
            115                 120                 125

Glu Gln Trp Pro Pro Pro Lys Gly Phe His Ser Cys Gln Glu Thr Pro
    130                 135                 140

Gln Glu Ser His
```

145

<210> 207
<211> 36
<212> PRT
<213> Homo sapiens

<400> 207
Met Trp Thr Cys Pro Gly Ile Ala Ala Leu Val Leu Met Ile Val Pro
1   5   10   15

Gly Cys Ser Leu Cys Pro Ala Gln Val Val His His Val Gly Gln Arg
            20   25   30

Glu Ser Pro Ser
        35

<210> 208
<211> 406
<212> PRT
<213> Homo sapiens

<400> 208
Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu Cys Ala Ala
1   5   10   15

Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln Ser Lys Ser
            20   25   30

Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala His Gly Leu
        35   40   45

Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg Thr Arg Ser
    50   55   60

Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly Ser Ala Cys
65   70   75   80

Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro Glu Ser Arg
                85   90   95

Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu Lys Ala Gln
            100   105   110

Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln Gln Gln Arg
            115   120   125

His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln Ser Gln Phe
    130   135   140

Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala Lys Pro Ala
145   150   155   160

Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp Pro Ala His
                165   170   175

Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln Glu Leu Phe
            180   185   190

Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln Pro Gln Gly
            195   200   205

Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp Gly Gly Trp
    210   215   220

Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe Asn Arg Pro
225   230   235   240

Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly Glu Phe Trp
                245   250   255

Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg Asn Ser Arg
                260   265   270

Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu Leu Leu Gln
            275   280   285

Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser Leu Gln Leu
    290   295   300

Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val Pro Pro Ser
305   310   315   320

Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His Asp Leu Arg
                325   330   335

Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp Trp Phe Gly
            340   345   350

Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg Ser Ile Pro
            355   360   365

Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys Thr Trp Arg
    370   375   380

Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile Gln Pro Met
385   390   395   400

Ala Ala Glu Ala Ala Ser
                405

<210> 209
<211> 91
<212> PRT
<213> Homo sapiens

<400> 209
Met Glu Lys Thr Leu Phe Leu Tyr His Tyr Leu Pro Ala Leu Thr Phe
  1   5   10   15

Gln Ile Leu Leu Leu Pro Val Val Leu Gln His Ile Ser Asp His Leu
            20   25   30

Cys Arg Ser Gln Leu Gln Arg Ser Ile Phe Ser Ala Leu Val Val Ala
            35   40   45

Trp Tyr Ser Ser Ala Cys His Val Ser Asn Thr Leu Arg Pro Leu Thr
    50   55   60

Tyr Gly Asp Lys Ser Leu Ser Pro His Glu Leu Lys Ala Leu Arg Trp
 65   70   75   80

Lys Asp Ser Trp Asp Ile Leu Ile Arg Lys His
                85   90

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<210> 210
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 210
Met Leu Leu Phe Gly Leu Cys Trp Gly Pro Tyr Val Ala Thr Leu Leu
 1               5                  10                  15

Leu Ser Val Leu Ala Tyr Xaa Gln Arg Pro Pro Leu Xaa Pro Gly Thr
            20                  25                  30

Leu Leu Ser Leu Leu Ser Leu Gly Ser Ala Ser Ala Ala Ala Val Pro
         35                  40                  45

Val Ala Met Gly Leu Gly Asp Gln Arg Tyr Thr Ala Pro Trp Arg Ala
    50                  55                  60

Ala Ala Gln Arg Cys Leu Gln Gly Leu Trp Gly Arg Ala Ser Arg Asp
65                  70                  75                  80

Ser Pro Gly Pro Ser Ile Ala Tyr His Pro Ser Ser Gln Ser Ser Val
            85                  90                  95

Asp Leu Asp Leu Asn
            100




<210> 211
<211> 50
<212> PRT
<213> Homo sapiens

<400> 211
Met Ser Ala Gly Lys Trp Leu Leu Leu Val Ile Phe Arg Asp Leu Gly
 1               5                  10                  15

Cys Gly Val Ser Arg Thr Ser Pro His Leu Arg Ser Gly Glu Glu Gly
            20                  25                  30

Arg Ile Trp Ser Leu Leu Thr Ala Cys Ser Cys Cys Cys Leu Phe Val
         35                  40                  45

Ile Phe
    50




<210> 212
<211> 161
<212> PRT
<213> Homo sapiens

<400> 212
```

```
Met Thr Ser Ala Leu Arg Gly Val Ala Asp Asp Gln Gly Gln His Pro
 1               5                  10                  15

Leu Leu Lys Met Leu Leu His Leu Leu Ala Phe Ser Ser Ala Ala Thr
            20              25                  30

Gly His Leu Gln Ala Ser Val Leu Thr Gln Cys Leu Lys Val Leu Val
        35                  40                  45

Lys Leu Ala Glu Asn Thr Ser Cys Asp Phe Leu Pro Arg Phe Gln Cys
    50                  55                  60

Val Phe Gln Val Leu Pro Lys Cys Leu Ser Pro Glu Thr Pro Leu Pro
65                  70                  75                  80

Ser Val Leu Leu Ala Val Glu Leu Leu Ser Leu Leu Ala Asp His Asp
                85                  90                  95

Gln Leu Ala Pro Gln Leu Cys Ser His Ser Glu Gly Cys Leu Leu Leu
            100                 105                 110

Leu Leu Tyr Met Tyr Ile Thr Ser Arg Pro Asp Arg Val Ala Leu Glu
        115                 120                 125

Thr Gln Trp Leu Gln Leu Glu Gln Glu Val Val Trp Leu Leu Ala Lys
    130                 135                 140

Leu Gly Val Gln Glu Pro Leu Ala Pro Ser His Trp Leu Gln Leu Pro
145                 150                 155                 160

Val
```

<210> 213
<211> 227
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 213

```
Met Leu Gly Leu Leu Leu Leu Cys Thr Pro Arg Ala Trp Leu Thr Leu
 1               5                  10                  15

Ser Gly Pro Val Cys Phe Gln Gly Arg Gly Pro Ser Glu Val Pro Gln
            20                  25                  30

Arg Pro Pro Gln Leu Trp Val Val Ser Ile Ser Val Leu Gln Gly Gln
        35                  40                  45

His Arg Gly Arg Ala Gly Pro Arg Asp Glu Gln Glu Arg Gly Arg Asp
    50                  55                  60

Gln His Xaa Leu Pro Ala His Gly Arg Leu His Leu Ser Pro Arg Pro
65                  70                  75                  80
```

```
Glu Pro Gly Cys Arg Pro Ala Cys Ala Ala Pro Gly Gly Gln Pro Gly
                 85              90                      95

Val Val Ser Gly Leu Pro Ala Leu Gly Gln Pro Arg Glu Ala Ser Ala
            100             105                 110

Pro Cys His Ile Ser Arg Leu Arg Thr Ala Ser Leu Ala Val Val Met
        115             120                 125

Gly Ala Glu Lys Gly Gly Ala Glu Met Arg Pro Trp Pro Ala Val Gln
    130             135                 140

Ala Pro Ala Pro Leu Pro Ser Val Gly Gly Thr Pro Ile Cys Ala Pro
145             150             155                 160

Gly Cys Gly Ser Lys Asp Thr Val Pro Xaa Leu Gln Pro Ser Val Pro
                165             170                 175

Lys Gly Arg Ala Glu Ser Gly Phe Val Ser Ala Arg Phe Leu Cys Pro
            180             185                 190

His Pro Pro Arg Ser Leu Leu Cys Leu Gly Pro Gly Pro Ser Leu Ser
        195             200                 205

Gly Leu Pro Gly Pro Pro Ile Pro Ala Leu Leu Gln Gly Pro Leu Gly
    210             215             220

Leu Gly Cys
225


<210> 214
<211> 351
<212> PRT
<213> Homo sapiens

<400> 214
Met Leu Thr Leu Arg Ser Leu Leu Phe Trp Ser Leu Val Tyr Cys Tyr
  1           5               10              15

Cys Gly Leu Cys Ala Ser Ile His Leu Leu Lys Leu Leu Trp Ser Leu
            20              25              30

Gly Lys Gly Pro Ala Gln Thr Phe Arg Arg Pro Ala Arg Glu His Pro
        35              40                  45

Pro Ala Cys Leu Ser Asp Pro Ser Leu Gly Thr His Cys Tyr Val Arg
    50              55              60

Ile Lys Asp Ser Gly Leu Arg Phe His Tyr Val Ala Ala Gly Glu Arg
65              70              75                  80

Gly Lys Pro Leu Met Leu Leu Leu His Gly Phe Pro Glu Phe Trp Tyr
                85              90                  95

Ser Trp Arg Tyr Gln Leu Arg Glu Phe Lys Ser Glu Tyr Arg Val Val
            100             105                 110

Ala Leu Asp Leu Arg Gly Tyr Gly Glu Thr Asp Ala Pro Ile His Arg
            115             120                 125

Gln Asn Tyr Lys Leu Asp Cys Leu Ile Thr Asp Ile Lys Asp Ile Leu
    130             135                 140

Asp Ser Leu Gly Tyr Ser Lys Cys Val Leu Ile Gly His Asp Trp Gly
```

```
        145                   150                   155                   160
Gly Met Ile Ala Trp Leu Ile Ala Ile Cys Tyr Pro Glu Met Val Met
                165                 170                 175

Lys Leu Ile Val Ile Asn Phe Pro His Pro Asn Val Phe Thr Glu Tyr
            180                 185                 190

Ile Leu Arg His Pro Ala Gln Leu Leu Lys Ser Ser Tyr Tyr Tyr Phe
            195                 200                 205

Phe Gln Ile Pro Trp Phe Pro Glu Phe Met Phe Ser Ile Asn Asp Phe
    210                 215                 220

Lys Val Leu Lys His Leu Phe Thr Ser His Ser Thr Gly Ile Gly Arg
225                 230                 235                 240

Lys Gly Cys Gln Leu Thr Thr Glu Asp Leu Glu Ala Tyr Ile Tyr Val
                245                 250                 255

Phe Ser Gln Pro Gly Ala Leu Ser Gly Pro Ile Asn His Tyr Arg Asn
                260                 265                 270

Ile Phe Ser Cys Leu Pro Leu Lys His His Met Val Thr Thr Pro Thr
            275                 280                 285

Leu Leu Leu Trp Gly Glu Asn Asp Ala Phe Met Glu Val Glu Met Ala
    290                 295                 300

Glu Val Thr Lys Ile Tyr Val Lys Asn Tyr Phe Arg Leu Thr Ile Leu
305                 310                 315                 320

Ser Glu Ala Ser His Trp Leu Gln Gln Asp Gln Pro Asp Ile Val Asn
                325                 330                 335

Lys Leu Ile Trp Thr Phe Leu Lys Glu Glu Thr Arg Lys Lys Asp
                340                 345                 350
```

<210> 215
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 215
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Met Gly His Leu Pro His Ile Leu Ser Leu Gly Leu Phe Leu Thr Leu
    1                   5                  10                  15

Leu Met Phe Cys Ile Thr Lys Ser Asp Gly Gln Asn Lys Ile Tyr Arg
            20                  25                  30
```

Cys Phe Lys Lys Ala Ser Pro Gln Val Ile Val Thr His Thr Lys Met
      35   40   45

Arg Ile Ala Ala Ile Ile Cys Ser Tyr Trp Xaa Gly Xaa Ala Asn Leu
   50   55   60

Gly Thr Arg Ile Lys Leu Gln Leu Asn Ser Ala Val Tyr Lys Ile Phe
65   70   75   80

Val Ser Leu Xaa Arg Lys Arg Lys Arg Thr Leu Ser Trp
          85   90

<210> 216
<211> 101
<212> PRT
<213> Homo sapiens

<400> 216
Met Phe Gln Gln Gly Trp Ser Ser Pro Leu Leu Thr Pro Ala Phe Thr
 1   5   10   15

Ile Leu Pro Met Ser Ser Leu Leu Thr Ser Leu His Pro Ala Pro Arg
        20   25   30

Leu Pro Thr Leu Leu Ala Ala Ser Ser Pro Gln Leu Ala Pro Leu Thr
       35   40   45

Cys Cys Phe Gln Tyr Pro Phe Leu Leu Ser Ala Ser Ser Leu Gly Asp
   50   55   60

Ile His Pro Ser Ser Arg Asp Phe Ser Cys His Ile Asn Ser Asn Val
65   70   75   80

Ser Glu Leu Tyr Phe Leu Pro Pro Thr Ser Val Ser Leu Asn Val Arg
        85   90   95

Ile Phe Tyr Phe Gln
       100

<210> 217
<211> 98
<212> PRT
<213> Homo sapiens

<400> 217
Met Gly Trp Leu Gly Arg Thr Cys Leu Ala His Ser His Leu Asp Phe
 1   5   10   15

Ile Ser Gly Ala Leu Leu Leu Thr Phe Ala Tyr Phe Leu Val Phe Gln
        20   25   30

Val Cys Pro Val Ile Asn Lys Trp Leu Tyr Asn Leu Asp Gln His Val
       35   40   45

Val Lys Glu Leu Ile Ser Lys Cys Trp Arg Trp Glu Gly Thr Gly Thr
   50   55   60

Leu Gln Lys Lys Ala Gln Asn Pro Pro Ser Pro Phe Val Phe His Phe
65   70   75   80

Pro Leu Pro His Ser Gly Thr Ser Pro Arg Pro Lys Ile Ser Phe Leu

                    85   90   95

Leu Lys

<210> 218
<211> 81
<212> PRT
<213> Homo sapiens

<400> 218
Met Trp Gly Gly Ser Val Phe Leu Lys Pro Lys Leu Leu Gln Ala Gly
 1   5   10   15

Gly Phe Leu His Phe Leu Phe Val Leu Phe Leu Thr Ala Asp Ser Val
            20   25   30

His Leu Ser Val Gly Gly Glu Leu Leu Leu Arg Thr Gly Phe Lys Arg
        35   40   45

His Ile Pro Val Thr Phe Lys Asn Leu His Gly Gly Arg Ser Phe Ser
    50   55   60

Arg Ser Val Gly Trp Ser Thr Leu Gly Pro Thr Thr Leu Arg Arg Gly
65   70   75   80

Arg

<210> 219
<211> 188
<212> PRT
<213> Homo sapiens

<400> 219
Met Phe His Gln Ile Trp Ala Ala Leu Leu Tyr Phe Tyr Gly Ile Ile
 1   5   10   15

Leu Asn Ser Ile Tyr Gln Cys Pro Glu His Ser Gln Leu Thr Thr Leu
            20   25   30

Gly Val Asp Gly Lys Glu Phe Pro Glu Val His Leu Gly Gln Trp Tyr
        35   40   45

Phe Ile Ala Gly Ala Ala Pro Thr Lys Glu Glu Leu Ala Thr Phe Asp
    50   55   60

Pro Val Asp Asn Ile Val Phe Asn Met Ala Ala Gly Ser Ala Pro Met
65   70   75   80

Gln Leu His Leu Arg Ala Thr Ile Arg Met Lys Asp Gly Leu Cys Val
            85   90   95

Pro Arg Lys Trp Ile Tyr His Leu Thr Glu Gly Ser Thr Asp Leu Arg
            100   105   110

Thr Glu Gly Arg Pro Asp Met Lys Thr Glu Leu Phe Ser Ser Ser Cys
        115   120   125

Pro Gly Gly Ile Met Leu Asn Glu Thr Gly Gln Gly Tyr Gln Arg Phe
    130   135   140

Leu Leu Tyr Asn Arg Ser Pro His Pro Pro Glu Lys Cys Val Glu Glu
145   150   155   160

Phe Lys Ser Leu Thr Ser Cys Leu Asp Ser Lys Ala Phe Leu Leu Thr
                165   170   175

Pro Arg Asn Gln Glu Ala Cys Glu Leu Ser Asn Asn
            180   185

<210> 220
<211> 44
<212> PRT
<213> Homo sapiens

<400> 220
Met Gln Arg Thr Phe Lys Tyr Leu His Phe Tyr Ile Ile Arg Phe Val
  1   5   10   15

Ser Thr Tyr Ala Phe Ile Val Phe Phe Pro Phe Ser Ser Ser His Val
            20   25   30

Asn Gly Pro Cys Glu Lys Asn Ile Pro Leu Gly Lys
        35   40

<210> 221
<211> 515
<212> PRT
<213> Homo sapiens

<400> 221
Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu
  1   5   10   15

Arg Gly Leu Gln Ala Gly Gly Glu Trp Arg Arg Pro Pro Ala His Ser
            20   25   30

Pro Val Pro Ala Pro Pro Leu Arg Phe Ala Ser Pro His Ser Pro Gln
        35   40   45

Ala Pro Asp Pro Gly Phe Gln Glu Arg Phe Phe Gln Gln Arg Leu Asp
    50   55   60

His Phe Asn Phe Glu Arg Phe Gly Asn Lys Thr Phe Pro Gln Arg Phe
65   70   75   80

Leu Val Ser Asp Arg Phe Trp Val Arg Gly Glu Gly Pro Ile Phe Phe
            85   90   95

Tyr Thr Gly Asn Glu Gly Asp Val Trp Ala Phe Ala Asn Asn Ser Gly
            100   105   110

Phe Val Ala Glu Leu Ala Ala Glu Arg Gly Ala Leu Leu Val Phe Ala
        115   120   125

Glu His Arg Tyr Tyr Gly Lys Ser Leu Pro Phe Gly Ala Gln Ser Thr
    130   135   140

Gln Arg Gly His Thr Glu Leu Leu Thr Val Glu Gln Ala Leu Ala Asp
145   150   155   160

Phe Ala Glu Leu Leu Arg Ala Leu Arg Arg Asp Leu Gly Ala Gln Asp
            165   170   175

Ala Pro Ala Ile Ala Phe Gly Gly Ser Tyr Gly Gly Met Leu Ser Ala
              180   185   190

Tyr Leu Arg Met Lys Tyr Pro His Leu Val Ala Gly Ala Leu Ala Ala
          195   200   205

Ser Ala Pro Val Leu Ala Val Ala Gly Leu Gly Asp Ser Asn Gln Phe
      210   215   220

Phe Arg Asp Val Thr Ala Asp Phe Glu Gly Gln Ser Pro Lys Cys Thr
225   230   235   240

Gln Gly Val Arg Glu Ala Phe Arg Gln Ile Lys Asp Leu Phe Leu Gln
              245   250   255

Gly Ala Tyr Asp Thr Val Arg Trp Glu Phe Gly Thr Cys Gln Pro Leu
          260   265   270

Ser Asp Glu Lys Asp Leu Thr Gln Leu Phe Met Phe Ala Arg Asn Ala
          275   280   285

Phe Thr Val Leu Ala Met Met Asp Tyr Pro Tyr Pro Thr Asp Phe Leu
      290   295   300

Gly Pro Leu Pro Ala Asn Pro Val Lys Val Gly Cys Asp Arg Leu Leu
305   310   315   320

Ser Glu Ala Gln Arg Ile Thr Gly Leu Arg Ala Leu Ala Gly Leu Val
              325   330   335

Tyr Asn Ala Ser Gly Ser Glu His Cys Tyr Asp Ile Tyr Arg Leu Tyr
              340   345   350

His Ser Cys Ala Asp Pro Thr Gly Cys Gly Thr Gly Pro Asp Ala Arg
          355   360   365

Ala Trp Asp Tyr Gln Ala Cys Thr Glu Ile Asn Leu Thr Phe Ala Ser
      370   375   380

Asn Asn Val Thr Asp Met Phe Pro Asp Leu Pro Phe Thr Asp Glu Leu
385   390   395   400

Arg Gln Arg Tyr Cys Leu Asp Thr Trp Gly Val Trp Pro Arg Pro Asp
              405   410   415

Trp Leu Leu Thr Ser Phe Trp Gly Gly Asp Leu Arg Ala Ala Ser Asn
          420   425   430

Ile Ile Phe Ser Asn Gly Asn Leu Asp Pro Trp Ala Gly Gly Gly Ile
          435   440   445

Arg Arg Asn Leu Ser Ala Ser Val Ile Ala Val Thr Ile Gln Gly Gly
      450   455   460

Ala His His Leu Asp Leu Arg Ala Ser His Pro Glu Asp Pro Ala Ser
465   470   475   480

Val Val Glu Ala Arg Lys Leu Glu Ala Thr Ile Ile Gly Glu Trp Val
              485   490   495

Lys Ala Ala Arg Arg Glu Gln Gln Pro Ala Leu Arg Gly Gly Pro Arg
          500   505   510

Leu Ser Leu
      515

<210> 222
<211> 522
<212> PRT
<213> Homo sapiens

<400> 222

```
Met Ala Ala Ala Met Pro Leu Ala Leu Leu Val Leu Leu Leu Leu Gly
  1               5                  10                  15

Pro Gly Gly Trp Cys Leu Ala Glu Pro Pro Arg Asp Ser Leu Arg Glu
             20                  25                  30

Glu Leu Val Ile Thr Pro Leu Pro Ser Gly Asp Val Ala Ala Thr Phe
         35                  40                  45

Gln Phe Arg Thr Arg Trp Asp Ser Glu Leu Gln Arg Glu Gly Val Ser
     50                  55                  60

His Tyr Arg Leu Phe Pro Lys Ala Leu Gly Gln Leu Ile Ser Lys Tyr
 65                  70                  75                  80

Ser Leu Arg Glu Leu His Leu Ser Phe Thr Gln Gly Phe Trp Arg Thr
             85                  90                  95

Arg Tyr Trp Gly Pro Pro Phe Leu Gln Ala Pro Ser Asp Thr Asp His
            100                 105                 110

Tyr Phe Leu Arg Tyr Ala Val Leu Pro Arg Glu Val Val Cys Thr Glu
        115                 120                 125

Asn Leu Thr Pro Trp Lys Lys Leu Leu Pro Cys Ser Ser Lys Ala Gly
    130                 135                 140

Leu Ser Val Leu Leu Lys Ala Asp Arg Leu Phe His Thr Ser Tyr His
145                 150                 155                 160

Ser Gln Ala Val His Ile Arg Pro Val Cys Arg Asn Ala Arg Cys Thr
                165                 170                 175

Ser Ile Ser Trp Glu Leu Arg Gln Thr Leu Ser Val Val Phe Asp Ala
            180                 185                 190

Phe Ile Thr Gly Gln Gly Lys Lys Asp Trp Ser Leu Phe Arg Met Phe
        195                 200                 205

Ser Arg Thr Leu Thr Glu Pro Cys Pro Leu Ala Ser Glu Ser Arg Val
    210                 215                 220

Tyr Val Asp Ile Thr Thr Tyr Asn Gln Asp Asn Glu Thr Leu Glu Val
225                 230                 235                 240

His Pro Pro Pro Thr Thr Thr Tyr Gln Asp Val Ile Leu Gly Thr Arg
                245                 250                 255

Lys Thr Tyr Ala Ile Tyr Asp Leu Leu Asp Thr Ala Met Ile Asn Asn
            260                 265                 270

Ser Arg Asn Leu Asn Ile Gln Leu Lys Trp Lys Arg Pro Pro Glu Asn
        275                 280                 285

Glu Ala Pro Pro Val Pro Phe Leu His Ala Gln Arg Tyr Val Ser Gly
    290                 295                 300
```

```
Tyr Gly Leu Gln Lys Gly Glu Leu Ser Thr Leu Leu Tyr Asn Thr His
305             310             315             320

Pro Tyr Arg Ala Phe Pro Val Leu Leu Leu Asp Thr Val Pro Trp Tyr
            325             330             335

Leu Arg Leu Tyr Val His Thr Leu Thr Ile Thr Ser Lys Gly Lys Glu
            340             345             350

Asn Lys Pro Ser Tyr Ile His Tyr Gln Pro Ala Gln Asp Arg Leu Gln
            355             360             365

Pro His Leu Leu Glu Met Leu Ile Gln Leu Pro Ala Asn Ser Val Thr
            370             375             380

Lys Val Ser Ile Gln Phe Glu Arg Ala Leu Leu Lys Trp Thr Glu Tyr
385             390             395             400

Thr Pro Asp Pro Asn His Gly Phe Tyr Val Ser Pro Ser Val Leu Ser
            405             410             415

Ala Leu Val Pro Ser Met Val Ala Ala Lys Pro Val Asp Trp Glu Glu
            420             425             430

Ser Pro Leu Phe Asn Ser Leu Phe Pro Val Ser Asp Gly Ser Asn Tyr
            435             440             445

Phe Val Arg Leu Tyr Thr Glu Pro Leu Leu Val Asn Leu Pro Thr Pro
            450             455             460

Asp Phe Ser Met Pro Tyr Asn Val Ile Cys Leu Thr Cys Thr Val Val
465             470             475             480

Ala Val Cys Tyr Gly Ser Phe Tyr Asn Leu Leu Thr Arg Thr Phe His
            485             490             495

Ile Glu Glu Pro Arg Thr Gly Gly Leu Ala Lys Arg Leu Ala Asn Leu
            500             505             510

Ile Arg Arg Ala Arg Gly Val Pro Pro Leu
            515             520
```

<210> 223
<211> 52
<212> PRT
<213> Homo sapiens

<400> 223
```
Met Lys Ser His Ile Ser Trp Arg Leu Cys Ser Leu Leu Leu Ile Leu
  1             5              10             15

Phe Ser Leu Ile Leu Ser Ala Cys Phe Ile Ser Ala Arg Trp Ser Ser
            20             25             30

Asn Ser Asp Ile Phe Phe Ser Ala Trp Ser Ile Gln Leu Leu Ile Leu
            35             40             45

Val Tyr Ala Ser
      50
```

<210> 224
<211> 73

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 224
Met Gly Phe Trp Cys Gly Cys Pro Phe Cys Leu Leu Val Phe Leu Leu
 1   5   10   15

Thr Val Arg Thr Arg Ser Phe Xaa Ser Val Gly Val Cys Trp Arg Ser
            20   25   30

Thr Pro Asp Pro Leu Cys Leu Gly Ile Ser Ser Arg Ser Cys Arg Thr
        35   40   45

Ala Asp Ile Gly Glu Gln Gln Met Leu Leu Pro Asp Arg Ser Ser Gly
    50   55   60

Ser Phe Val Ser Glu Tyr Pro Ala Met
65   70

<210> 225
<211> 54
<212> PRT
<213> Homo sapiens

<400> 225
Met Tyr Arg Phe Phe Leu Cys Val Asp Leu Ser Phe Gln Leu Leu Trp
 1   5   10   15

Val Ile Pro Arg Ser Thr Val Thr Gly Thr Tyr Gly Lys Asp Ile Phe
            20   25   30

Ser Leu Ala Gly Asn His His Thr Val Phe Gln Ser Ser Cys Thr Ile
        35   40   45

Leu His Thr His Gln His
    50

<210> 226
<211> 72
<212> PRT
<213> Homo sapiens

<400> 226
Met Ala Thr Ile Leu Leu Lys Leu Pro Ile Leu Ser Ala Met Ile Lys
 1   5   10   15

Lys Pro Leu Arg Asn Tyr Leu Lys Thr Ser Glu Thr Thr Met Glu Lys
            20   25   30

Ile Ile Ile Gln Lys Leu Val Ala Asn Leu Lys Phe Leu Pro Leu Gly
        35   40   45

Thr Leu Gln Leu Ala Met Met Ile Ala Asn Leu Ile Lys Lys Leu Phe
    50   55   60

Phe Pro Leu Val Lys Ala Ala Lys
65   70

<210> 227
<211> 66
<212> PRT
<213> Homo sapiens

<400> 227
Met Tyr Leu Ala Val Tyr Leu Leu Leu Phe Leu Cys Ile Cys Phe Tyr
1   5   10   15

Phe Ile Ala Leu Phe Ser His Ala Leu Val Pro His Cys Phe Asn Tyr
            20   25   30

Pro Gly Phe Ser Phe Asn Leu Val His Trp Ser Ser Leu Ile Pro Pro
            35   40   45

Leu Pro Thr Phe Phe Phe Phe Asn Ser Phe Ser Asn Cys Ser Tyr Phe
        50   55   60

Ser Ile
65

<210> 228
<211> 56
<212> PRT
<213> Homo sapiens

<400> 228
Met Ala Lys Thr Asp Phe Ser Ile Ile Leu Leu Lys Leu His Cys Leu
1   5   10   15

Phe Phe Phe Ser Val Ile Ser Val His Cys Ala Gln Ser Phe Ile Ser
            20   25   30

Val Thr Gln Thr Glu Pro Ser Pro Ala Val Cys Ile Phe Pro Ala Val
            35   40   45

Gly Ser Gly Leu Gly Pro Cys Asp
        50   55

<210> 229
<211> 76
<212> PRT
<213> Homo sapiens

<400> 229
Met Ala Gly Pro Trp Thr Phe Thr Leu Leu Cys Gly Leu Leu Ala Ala
1   5   10   15

Thr Leu Ile Gln Ala Thr Leu Ser Pro Thr Ala Val Leu Ile Leu Gly
            20   25   30

Pro Lys Val Ile Lys Glu Lys Leu Thr Gln Glu Leu Lys Asp His Asn
            35   40   45

Ala Thr Ser Ile Leu Gln Gln Leu Pro Leu Leu Ser Ala Met Arg Glu
        50   55   60

Lys Pro Ala Gly Ala Ser Leu Cys Trp Ala Ala Trp
65   70   75

<210> 230
<211> 44
<212> PRT
<213> Homo sapiens

<400> 230
Met Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala
 1   5   10   15

Leu Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly
            20   25   30

Pro Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly
        35   40

<210> 231
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 231
Met Ser Trp Val Gln Ala Thr Leu Leu Ala Arg Gly Leu Cys Arg Ala
 1   5   10   15

Trp Gly Gly Thr Cys Gly Ala Ala Leu Thr Gly Thr Ser Ile Ser Gln
            20   25   30

Val Pro Arg Arg Leu Pro Arg Gly Leu His Cys Ser Ala Leu Xaa Ile
        35   40   45

Ala Leu Asn Ser Pro Trp Phe Pro Ala His Arg Asn Pro Gly Arg Gly
    50   55   60

Pro Pro Arg Leu Trp Cys Pro Leu Arg Thr Cys Leu Gly Arg Arg Leu
65   70   75   80

Val Gly Asn Gly Thr Arg Arg Ala Ser Cys Arg Arg Cys Arg Asn Leu
                85   90   95

Arg Xaa Gln Arg Ala
        100

<210> 232
<211> 132
<212> PRT
<213> Homo sapiens

<400> 232
Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp

```
     1                    5                      10                       15
    Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala Val
                    20                    25                    30

    Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met
             35                    40                    45

    Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Ala Phe Val Tyr
          50                    55                    60

    Gly Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val Met
    65                    70                    75                    80

    Ala Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg Ala
                    85                    90                    95

    Cys Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly Val
                   100                   105                   110

    Gly Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro Thr
                   115                   120                   125

    Arg Leu Arg Arg
          130


<210> 233
<211> 66
<212> PRT
<213> Homo sapiens

<400> 233
Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp
  1                 5                     10                    15

Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala Val
       .          20                    25                    30

Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met
             35                    40                    45

Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Leu Ser Cys Thr
       50                    55                    60

Ala Pro
 65


<210> 234
<211> 72
<212> PRT
<213> Homo sapiens

<400> 234
Met Pro Trp Lys Arg Ala Val Val Leu Leu Met Leu Trp Phe Ile Gly
  1                 5                     10                    15

Gln Ala Met Trp Leu Ala Pro Ala Tyr Val Leu Glu Phe Gln Gly Lys
                 20                    25                    30

Asn Thr Phe Leu Phe Ile Trp Leu Ala Gly Leu Phe Phe Leu Leu Ile
             35                    40                    45
```

Asn Cys Ser Ile Leu Ile Gln Ile Ile Ser His Tyr Lys Glu Glu Pro
    50   55   60

Leu Thr Glu Arg Ile Lys Tyr Asp
 65   70

<210> 235
<211> 293
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 235
Met Leu Ala Leu Thr Phe Met Phe Met Val Leu Glu Val Val Val Ser
  1   5   10   15

Arg Val Thr Ser Ser Leu Ala Met Leu Ser Asp Ser Phe His Met Leu
                20   25   30

Ser Asp Val Leu Ala Leu Val Val Ala Leu Val Ala Glu Arg Phe Ala
            35   40   45

Arg Arg Thr His Ala Thr Gln Lys Asn Thr Phe Gly Trp Ile Arg Ala
        50   55   60

Glu Val Met Gly Ala Leu Val Asn Ala Ile Phe Leu Thr Gly Leu Cys
 65   70   75   80

Phe Ala Ile Leu Leu Glu Ala Ile Glu Arg Phe Ile Glu Pro His Glu
                85   90   95

Met Gln Gln Pro Leu Val Val Leu Gly Val Gly Val Ala Gly Leu Leu
                100   105   110

Val Asn Val Leu Gly Leu Cys Leu Phe His His His Ser Gly Phe Ser
            115   120   125

Gln Asp Ser Gly His Xaa His Ser His Gly Gly His Gly His Gly His
        130   135   140

Gly Leu Pro Lys Gly Pro Arg Val Lys Ser Thr Arg Pro Gly Ser Ser
145   150   155   160

Asp Ile Asn Val Ala Pro Gly Glu Gln Gly Pro Asp Gln Glu Glu Thr
                165   170   175

Asn Thr Leu Val Ala Asn Thr Ser Asn Ser Asn Gly Leu Lys Leu Asp
                180   185   190

Pro Ala Asp Pro Glu Asn Pro Arg Ser Gly Asp Thr Val Glu Val Gln
            195   200   205

Val Asn Gly Asn Leu Val Arg Glu Pro Asp His Met Glu Leu Glu Glu
    210   215   220

Asp Arg Ala Gly Gln Leu Asn Met Arg Gly Val Phe Leu His Val Leu
225   230   235   240

Gly Asp Ala Leu Gly Ser Val Ile Val Val Val Asn Ala Leu Val Phe
                245   250   255

Tyr Phe Ser Trp Lys Gly Cys Ser Glu Gly Asp Phe Cys Val Asn Pro
            260   265   270

Cys Phe Pro Asp Pro Cys Lys Ala Phe Val Glu Ile Leu Ile Val Leu
            275   280   285

Met His Gln Phe Met
            290

<210> 236
<211> 550
<212> PRT
<213> Homo sapiens

<400> 236
Met Lys Arg Ala Ser Ala Gly Gly Ser Arg Leu Leu Ala Trp Val Leu
  1   5   10   15

Trp Leu Gln Ala Trp Gln Val Ala Ala Pro Cys Pro Gly Ala Cys Val
            20   25   30

Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Cys Pro Gln Gln Gly Leu
            35   40   45

Gln Ala Val Pro Val Gly Ile Pro Ala Ala Ser Gln Arg Ile Phe Leu
      50   55   60

His Gly Asn Arg Ile Ser His Val Pro Ala Ala Ser Phe Arg Ala Cys
 65   70   75   80

Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu Ala Arg Ile
            85   90   95

Asp Ala Ala Ala Phe Thr Gly Leu Ala Leu Leu Glu Gln Leu Asp Leu
            100   105   110

Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr Phe His Gly
            115   120   125

Leu Gly Arg Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu
      130   135   140

Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr
145   150   155   160

Leu Gln Asp Asn Ala Leu Gln Ala Leu Pro Asp Asp Thr Phe Arg Asp
            165   170   175

Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Ser Ser
            180   185   190

Val Pro Glu Arg Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu
            195   200   205

Leu His Gln Asn Arg Val Ala His Val His Pro His Ala Phe Arg Asp
      210   215   220

Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Ala
225   230   235   240

Leu Pro Thr Glu Ala Leu Ala Pro Leu Arg Ala Leu Gln Tyr Leu Arg
            245   250   255

Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp
          260   265   270

Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Glu Val Pro Cys Ser
      275   280   285

Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Ala Asn
    290   295   300

Asp Leu Gln Gly Cys Ala Val Ala Thr Gly Pro Tyr His Pro Ile Trp
305   310   315   320

Thr Gly Arg Ala Thr Asp Glu Glu Pro Leu Gly Leu Pro Lys Cys Cys
         325   330   335

Gln Pro Asp Ala Ala Asp Lys Ala Ser Val Leu Glu Pro Gly Arg Pro
        340   345   350

Ala Ser Ala Gly Asn Ala Leu Lys Gly Arg Val Pro Pro Gly Asp Ser
      355   360   365

Pro Pro Gly Asn Gly Phe Trp Pro Lys Gly Thr Leu Met Thr Tyr Pro
    370   375   380

Phe Gly Thr Leu Pro Gly Leu Ala Glu Pro Pro Val Ser Ala Leu Arg
385   390   395   400

Pro Glu Gly Ser Glu Pro Pro Gly Ser Pro Leu Arg Ala Leu Arg Arg
         405   410   415

Arg Pro Gly Cys Ser Arg Lys Asn Arg Thr Arg Ser His Ala Val Trp
        420   425   430

Ala Arg Gln Ala Ala Gly Val Ala Gly Leu Val Thr Gln Lys Ala Gln
      435   440   445

Val Pro Tyr Pro Ala Ser Pro Ala Ala Ser Pro Pro Trp Ala Trp Arg
    450   455   460

Trp Cys Cys Gly Gln Cys Leu Gly Pro Ala Asp Pro Gln Arg Thr Gln
465   470   475   480

Glu Arg Ala Gln Gln Pro Gly Val Cys Thr Tyr Gly Val Ser Leu His
         485   490   495

Ala Ala Lys Pro Ala Gly Arg Pro Thr Arg Gly Ala Gly Gln Ala Arg
        500   505   510

Ser Ser Leu Met Asp Ala Cys Arg Pro Pro Pro Pro Ser Pro Pro His
      515   520   525

His Val Tyr Arg Val Arg Arg Gln Arg Leu Phe Gln Asn Ala Ala Ser
    530   535   540

His Pro Asp Arg Gly Ile
545   550

<210> 237
<211> 380
<212> PRT
<213> Homo sapiens

<400> 237
Met Lys Arg Ala Ser Ala Gly Gly Ser Arg Leu Leu Ala Trp Val Leu

```
     1                5                    10                      15
   Trp Leu Gln Ala Trp Gln Val Ala Ala Pro Cys Pro Gly Ala Cys Val
                20                   25                   30

   Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Cys Pro Gln Gln Gly Leu
                35                   40                   45

   Gln Ala Val Pro Val Gly Ile Pro Ala Ala Ser Gln Arg Ile Phe Leu
            50                   55                   60

   His Gly Asn Arg Ile Ser His Val Pro Ala Ala Ser Phe Arg Ala Cys
   65                   70                   75                   80

   Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu Ala Arg Ile
                    85                   90                   95

   Asp Ala Ala Ala Phe Thr Gly Leu Ala Leu Leu Glu Gln Leu Asp Leu
                100                  105                  110

   Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr Phe His Gly
            115                  120                  125

   Leu Gly Arg Leu His Thr Val His Leu Asp Arg Cys Gly Leu Gln Glu
       130                  135                  140

   Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr
   145                  150                  155                  160

   Leu Gln Asp Asn Ala Leu Gln Ala Leu Pro Asp Asp Thr Phe Arg Asp
                165                  170                  175

   Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Ser Ser
                180                  185                  190

   Val Pro Glu Arg Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu
            195                  200                  205

   Leu His Gln Asn Arg Val Ala His Val His Pro His Ala Phe Arg Asp
       210                  215                  220

   Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Ala
   225                  230                  235                  240

   Leu Pro Thr Glu Ala Leu Ala Pro Leu Arg Ala Leu Gln Tyr Leu Arg
                245                  250                  255

   Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp
                260                  265                  270

   Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Glu Val Pro Cys Ser
            275                  280                  285

   Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Ala Asn
       290                  295                  300

   Asp Leu Gln Gly Cys Ala Val Ala Thr Gly Pro Tyr His Pro Ile Trp
   305                  310                  315                  320

   Thr Gly Arg Ala Thr Asp Glu Glu Pro Leu Gly Leu Pro Lys Cys Cys
                325                  330                  335

   Gln Pro Asp Ala Ala Asp Lys Ala Ser Val Leu Glu Pro Gly Arg Pro
                340                  345                  350

   Ala Ser Ala Gly Asn Ala Leu Lys Gly Pro Arg Ala Gly Arg Gly Gln
```

```
            355                    360                         365
Ala Arg Arg Glu Thr Val Phe Gly Pro Arg Glu His
    370                 375             380
```

<210> 238
<211> 54
<212> PRT
<213> Homo sapiens

<400> 238
```
Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys
 1               5                  10                  15

Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly
            20              25                  30

Arg Arg Arg Lys Asn Ser Phe Leu Phe Leu Leu Ser Phe Ser Ile Glu
        35              40                  45

Phe Leu Leu Cys Val Trp
        50
```

<210> 239
<211> 47
<212> PRT
<213> Homo sapiens

<400> 239
```
Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys
 1               5                  10                  15

Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly
            20              25                  30

Lys Glu Lys Lys Lys Leu Leu Phe Ile Phe Thr Phe Phe Gln His
        35              40                  45
```

<210> 240
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 240
```
Met Cys Lys Ala Val Cys Lys His Arg Leu Arg Leu Phe Ala Val Ser
 1               5                  10                  15

Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu
            20              25                  30

Trp Pro Val Arg Leu Ser Leu Ala Xaa Arg Pro Val Gln Leu Gln Gln
        35              40                  45

Arg Arg Ser His Cys
        50
```

<210> 241
<211> 69
<212> PRT
<213> Homo sapiens

<400> 241
Met Ser Arg Lys Ser Leu Ala Phe Pro Ile Ile Cys Ser Tyr Leu Cys
1   5   10   15

Phe Leu Thr Val Ala Thr Cys Ser Ile Ala Cys Thr Thr Val Phe Phe
            20   25   30

Ala Asn Leu Arg His Thr Arg Tyr Ile Cys Ile Glu Leu Ser Ala Leu
            35   40   45

Glu Thr Ser Gly Val Ile Ser Pro Gln Ile Asn Asn Val Pro Glu Val
        50   55   60

His Gly Lys Tyr Ser
65

<210> 242
<211> 68
<212> PRT
<213> Homo sapiens

<400> 242
Met Lys Pro Thr Arg Ser Leu Trp Ile Ser Phe Leu Met Cys Cys Trp
1   5   10   15

Ile Trp Phe Ala Asn Ile Leu Leu Arg Ile Phe Ala Ser Val Phe Phe
            20   25   30

Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Cys Cys Val Ser Ala Arg
            35   40   45

Leu Trp Tyr Gln Asp Asp Ala Gly Leu Ile Asn Glu Leu Gly Arg Ile
        50   55   60

Pro Ser Phe Tyr
65

<210> 243
<211> 67
<212> PRT
<213> Homo sapiens

<400> 243
Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
1   5   10   15

Leu Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
            20   25   30

Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
            35   40   45

Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Val Thr Cys
        50   55   60

Phe Gly Ala
 65

<210> 244
<211> 90
<212> PRT
<213> Homo sapiens

<400> 244
Met Leu Val Val Ser Thr Val Ile Ile Val Phe Trp Glu Phe Ile Asn
 1   5   10   15

Ser Thr Glu Gly Ser Phe Leu Trp Ile Tyr His Ser Lys Asn Pro Glu
                20   25   30

Val Asp Asp Ser Ser Ala Gln Lys Gly Trp Trp Phe Leu Ser Trp Phe
            35   40   45

Asn Asn Gly Ile His Asn Tyr Gln Gln Gly Glu Glu Asp Ile Asp Lys
    50   55   60

Glu Lys Gly Arg Glu Glu Thr Lys Gly Arg Lys Met Thr Gln Gln Ser
 65   70   75   80

Phe Gly Tyr Gly Thr Gly Leu Ile Gln Thr
                85   90

<210> 245
<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 245
Met Ala Phe Lys Leu Leu Ile Leu Leu Ile Gly Thr Trp Ala Leu Phe
 1   5   10   15

Phe Arg Lys Arg Arg Ala Asp Met Pro Arg Val Phe Val Phe Arg Ala
                20   25   30

Leu Leu Leu Val Leu Ile Phe Leu Phe Cys Gly Phe Pro Ile Gly Phe
            35   40   45

Phe Thr Gly Ser Ala Phe Trp Thr Leu Gly Asn Arg Asn Tyr Gln Gly
    50   55   60

Ile Val Gln Tyr Ala Val Ser Pro Cys Gly Met Pro Ser Ser Phe His
 65   70   75   80

Pro Leu Leu Ala Ile Arg Pro Cys Trp Ser Ser Gly Ser Leu Gln Pro
                85   90   95

Asn Val Pro Arg Cys Arg Leu Val Pro Leu Pro Thr Glu Trp Gly Asn
                100   105   110

Pro Arg Phe Gln Xaa Gly Thr Pro Glu Tyr Pro Ala Ser Ser Ile Gly
                115   120   125

Gly Pro Arg Lys Leu Leu Gln Arg Phe His His Leu
   130   135   140

<210> 246
<211> 37
<212> PRT
<213> Homo sapiens

<400> 246
Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
  1   5   10   15

Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
          20   25   30

Ser Pro Arg Thr Leu
         35

<210> 247
<211> 20
<212> PRT
<213> Homo sapiens

<400> 247
Arg Leu Leu Asn Leu Ser Val Pro Met Phe Thr Phe Ile Val Val Lys
  1   5   10   15

Arg Tyr Ala Thr
         20

<210> 248
<211> 138
<212> PRT
<213> Homo sapiens

<400> 248
Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr Thr Ser
  1   5   10   15

Val Leu Leu Cys Leu Gly Ile Thr Ala Leu Val Cys Leu Ser Val Thr
          20   25   30

Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln Gly Val
         35   40   45

Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile Leu Ala
     50   55   60

Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala Val Tyr Ala
  65   70   75   80

Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu Asp Thr Gln
          85   90   95

Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro Glu Glu Tyr Ile
        100   105   110

Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr Ile Phe Thr Phe
        115   120   125

Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu
    130   135

<210> 249
<211> 175
<212> PRT
<213> Homo sapiens

<400> 249
Met Ala Gln Trp Thr Ser Thr Gly Pro Gly Lys Pro Thr Arg Arg Gly
  1   5   10   15

Leu Gly Ile Pro Thr Ala Ser Ser Gly Trp Val Trp Arg Arg Cys Ile
            20   25   30

Ala Ser Trp Gly Thr Ala Thr Ala Ala Trp Pro Cys Ser Cys Gly Thr
        35   40   45

Gly Met Ala Thr Pro Ser Cys Cys Ser Ser Pro Cys Thr Trp Val Ala
    50   55   60

Arg Thr Arg Pro Ile Ala Cys Ser Ser Leu His Pro Trp Pro Ala Ser
65   70   75   80

Trp Ala Pro Pro Pro Ser His Pro Ala Ala Ser Pro Tyr Pro Ser Pro
                85   90   95

Leu Gly Thr Arg Ile Thr Thr Ser Ala Gly Thr Arg Thr Ala Pro Arg
            100   105   110

Ala Ser Leu Glu Ala Gly Gly Leu Ala Pro Ala Ala Ile Pro Thr Phe
        115   120   125

Asn Gly Pro Val Leu Pro Ala Pro Ser His Ser Ser Gly Arg Ser Leu
    130   135   140

Arg Arg Glu Ser Ser Gly Arg Pro Ala Gly Arg Tyr Tyr Pro Leu Gln
145   150   155   160

Ala Thr Thr Met Leu Ile Gln Pro Met Ala Ala Glu Ala Ala Ser
            165   170   175

<210> 250
<211> 101
<212> PRT
<213> Homo sapiens

<400> 250
Met Leu Leu Phe Gly Leu Cys Trp Gly Pro Tyr Val Ala Thr Leu Leu
  1   5   10   15

Leu Ser Val Leu Ala Tyr Glu Gln Arg Pro Pro Leu Gly Pro Gly Thr
            20   25   30

Leu Leu Ser Leu Leu Ser Leu Gly Ser Ala Ser Ala Ala Ala Val Pro
        35   40   45

Val Ala Met Gly Leu Gly Asp Gln Arg Tyr Thr Ala Pro Trp Arg Ala
    50   55   60

Ala Ala Gln Arg Cys Leu Gln Gly Leu Trp Gly Arg Ala Ser Arg Asp

<pre>
65   70   75   80
Ser Pro Gly Pro Ser Ile Ala Tyr His Pro Ser Ser Gln Ser Ser Val
            85   90   95

Asp Leu Asp Leu Asn
            100
</pre>

<210> 251
<211> 39
<212> PRT
<213> Homo sapiens

<400> 251
<pre>
Met Leu Gly Leu Leu Leu Leu Cys Thr Pro Arg Ala Trp Leu Thr Leu
 1   5   10   15

Ser Gly Pro Val Cys Phe Gln Gly Arg Asp Pro Leu Arg Ser His Arg
            20   25   30

Gly His Pro Ser Cys Gly Ser
            35
</pre>

<210> 252
<211> 47
<212> PRT
<213> Homo sapiens

<400> 252
<pre>
Met Leu Ser Ile Ile Pro Asn Asp Arg Leu Phe Ile Asn Leu Ile Phe
 1   5   10   15

Leu Ser Asn Phe Leu Pro Ser Val Leu Trp Glu Pro Ala Gly Gln Met
            20   25   30

Trp Tyr Thr His Val Arg Tyr Pro Ser Gly Arg Leu Leu Ser Leu
            35   40   45
</pre>

<210> 253
<211> 34
<212> PRT
<213> Homo sapiens

<400> 253
<pre>
Met Thr Gly Phe Ala Gln Phe Cys Val Ile Leu Gly Leu Asn Leu Ser
 1   5   10   15

Leu Phe Gly Thr Phe Pro Tyr Leu Leu Pro Ser Ser Glu Ser Arg Cys
            20   25   30

Arg Lys
</pre>

<210> 254
<211> 490
<212> PRT
<213> Homo sapiens

<400> 254

```
Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu
 1               5                  10                  15

Arg Gly Leu Gln Ala Gly Ala Arg Ser Gly Pro Arg Leu Pro Gly Ala
            20                  25                  30

Leu Leu Pro Ala Ala Ser Gly Pro Leu Gln Leu Arg Ala Leu Arg Gln
        35                  40                  45

Gln Asp Leu Pro Ser Ala Leu Pro Gly Val Gly Gln Val Leu Gly Pro
    50                  55                  60

Gly Arg Gly Ala His Leu Leu Leu His Trp Glu Arg Gly Arg Arg Val
65                  70                  75                  80

Gly Leu Arg Gln Gln Leu Gly Leu Arg Arg Gly Leu Ala Ala Glu Arg
                85                  90                  95

Gly Ala Leu Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys Ser Leu
            100                 105                 110

Pro Phe Gly Ala Gln Ser Thr Gln Arg Gly His Thr Glu Leu Leu Thr
        115                 120                 125

Val Glu Gln Ala Leu Ala Asp Phe Ala Glu Leu Leu Arg Ala Leu Arg
    130                 135                 140

Arg Asp Leu Gly Ala Gln Asp Ala Pro Ala Ile Ala Phe Gly Gly Ser
145                 150                 155                 160

Tyr Gly Gly Met Leu Ser Ala Tyr Leu Arg Met Lys Tyr Pro His Leu
                165                 170                 175

Val Ala Gly Ala Leu Ala Ala Ser Ala Pro Val Leu Ser Val Ala Gly
            180                 185                 190

Leu Gly Asp Ser Asn Gln Phe Phe Arg Asp Val Thr Ala Asp Phe Glu
        195                 200                 205

Gly Gln Ser Pro Lys Cys Thr Gln Gly Val Arg Glu Ala Phe Arg Gln
    210                 215                 220

Ile Lys Asp Leu Phe Leu Gln Gly Ala Tyr Asp Thr Val Arg Trp Glu
225                 230                 235                 240

Phe Gly Thr Cys Gln Pro Leu Ser Asp Glu Lys Asp Leu Thr Gln Leu
                245                 250                 255

Phe Met Phe Ala Arg Asn Ala Phe Thr Val Leu Ala Met Met Asp Tyr
            260                 265                 270

Pro Tyr Pro Thr Asp Phe Leu Gly Pro Leu Pro Ala Asn Pro Val Lys
        275                 280                 285

Val Gly Cys Asp Arg Leu Leu Ser Glu Ala Gln Arg Ile Thr Gly Leu
    290                 295                 300

Arg Ala Leu Ala Gly Leu Val Tyr Asn Ala Ser Gly Ser Glu His Cys
305                 310                 315                 320

Tyr Asp Ile Tyr Arg Leu Tyr His Ser Cys Ala Asp Pro Thr Gly Cys
                325                 330                 335

Gly Thr Gly Pro Asp Ala Arg Ala Trp Asp Tyr Gln Ala Cys Thr Glu
            340                 345                 350
```

```
Ile Asn Leu Thr Phe Ala Ser Asn Asn Val Thr Asp Met Phe Pro Asp
        355                 360                 365

Leu Pro Phe Thr Asp Glu Leu Arg Gln Arg Tyr Cys Leu Asp Thr Trp
    370                 375                 380

Gly Val Trp Pro Arg Pro Asp Trp Leu Leu Thr Ser Phe Trp Gly Gly
385                 390                 395                 400

Asp Leu Arg Ala Ala Ser Asn Ile Ile Phe Ser Asn Gly Asn Leu Asp
            405                 410                 415

Pro Trp Ala Gly Gly Gly Ile Arg Arg Asn Leu Ser Ala Ser Val Ile
            420                 425                 430

Ala Val Thr Ile Gln Gly Gly Ala His His Leu Asp Leu Arg Ala Ser
        435                 440                 445

His Pro Glu Asp Pro Ala Ser Val Val Glu Ala Arg Lys Leu Glu Ala
    450                 455                 460

Thr Ile Ile Gly Glu Trp Val Lys Ala Ala Arg Arg Glu Gln Gln Pro
465                 470                 475                 480

Ala Leu Arg Gly Gly Pro Arg Leu Ser Leu
                485                 490
```

<210> 255
<211> 554
<212> PRT
<213> Homo sapiens

<400> 255
```
Gly Gly Gly Tyr Ala Leu Ala Leu Leu Val Leu Leu Leu Leu Gly Pro
  1           5                 10                  15

Gly Gly Trp Cys Leu Ala Glu Pro Pro Arg Asp Ser Leu Arg Glu Glu
            20                  25                  30

Leu Val Ile Thr Pro Leu Pro Ser Gly Asp Val Ala Ala Thr Phe Gln
        35                  40                  45

Phe Arg Thr Arg Trp Asp Ser Glu Leu Gln Arg Glu Gly Val Ser His
    50                  55                  60

Tyr Arg Leu Phe Pro Lys Ala Leu Gly Gln Leu Ile Ser Lys Tyr Ser
65                  70                  75                  80

Leu Arg Glu Leu His Leu Ser Phe Thr Gln Gly Phe Trp Arg Thr Arg
                85                  90                  95

Tyr Trp Gly Pro Pro Phe Leu Gln Ala Pro Ser Asp Thr Asp His Tyr
                100                 105                 110

Phe Leu Arg Tyr Ala Val Leu Pro Arg Glu Val Val Cys Thr Glu Asn
            115                 120                 125

Leu Thr Pro Trp Lys Lys Leu Leu Pro Cys Ser Ser Lys Ala Gly Leu
    130                 135                 140

Ser Val Leu Leu Lys Ala Asp Arg Leu Phe His Thr Ser Tyr His Ser
145                 150                 155                 160
```

Gln Ala Val His Ile Arg Pro Val Cys Arg Asn Ala Arg Cys Thr Ser
           165   170   175

Ile Ser Trp Glu Leu Arg Gln Thr Leu Ser Val Val Phe Asp Ala Phe
        180   185   190

Ile Thr Gly Gln Gly Lys Lys Asp Trp Ser Leu Phe Arg Met Phe Ser
        195   200   205

Arg Thr Leu Thr Glu Pro Cys Pro Leu Ala Ser Glu Ser Arg Val Tyr
  210   215   220

Val Asp Ile Thr Thr Tyr Asn Gln Asp Asn Glu Thr Leu Glu Val His
225   230   235   240

Pro Pro Pro Thr Thr Thr Tyr Gln Asp Val Ile Leu Gly Thr Arg Lys
           245   250   255

Thr Tyr Ala Ile Tyr Asp Leu Leu Asp Thr Ala Met Ile Asn Asn Ser
        260   265   270

Arg Asn Leu Asn Ile Gln Leu Lys Trp Lys Arg Pro Pro Glu Asn Glu
        275   280   285

Ala Pro Pro Val Pro Phe Leu His Ala Gln Arg Tyr Val Ser Gly Tyr
  290   295   300

Gly Leu Gln Lys Gly Glu Leu Ser Thr Leu Leu Tyr Asn Thr His Pro
305   310   315   320

Tyr Arg Ala Phe Pro Val Leu Leu Leu Asp Thr Val Pro Trp Tyr Leu
        325   330   335

Arg Leu Tyr Val His Thr Leu Thr Ile Thr Ser Lys Gly Lys Glu Asn
        340   345   350

Lys Pro Ser Tyr Ile His Tyr Gln Pro Ala Gln Asp Arg Leu Gln Pro
        355   360   365

His Leu Leu Glu Met Leu Ile Gln Leu Pro Ala Asn Ser Val Thr Lys
      370   375   380

Val Ser Ile Gln Phe Glu Arg Ala Leu Leu Lys Trp Thr Glu Tyr Thr
385   390   395   400

Pro Asp Pro Asn His Gly Phe Tyr Val Ser Pro Ser Val Leu Ser Ala
        405   410   415

Leu Val Pro Ser Met Val Ala Ala Lys Pro Val Asp Trp Glu Glu Ser
        420   425   430

Pro Leu Phe Asn Ser Leu Phe Pro Val Ser Asp Gly Ser Asn Tyr Phe
        435   440   445

Val Arg Leu Tyr Thr Glu Pro Leu Leu Val Asn Leu Pro Thr Pro Asp
  450   455   460

Phe Ser Met Pro Tyr Asn Val Ile Cys Leu Thr Cys Thr Val Val Ala
465   470   475   480

Val Cys Tyr Gly Ser Phe Tyr Asn Leu Leu Thr Arg Thr Phe Pro His
        485   490   495

Arg Gly Ala Pro His Arg Trp Pro Gly Gln Ala Ala Gly Gln Pro Tyr
        500   505   510

Pro Ala Arg Pro Ser Val Pro Pro Thr Leu Ile Leu Ala Leu Ser Ser
515   520   525

Ser Cys Ser Cys Arg Phe Ser Leu Gly Arg Gly Ala Gln Gly Leu Phe
530   535   540

Leu Pro Leu Ala Leu Leu Arg Val Gly Phe
545   550

<210> 256
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 256
Met Tyr Leu Ala Val Tyr Leu Leu Leu Phe Leu Cys Ile Cys Phe Tyr
1   5   10   15

Phe Ile Ala Leu Phe Ser His Ala Leu Xaa Pro His Cys Phe Asn Tyr
                20   25   30

Pro Gly Phe Ser Phe Asn Leu Val His Trp Ser Ser Leu Ile Pro Pro
                35   40   45

Leu Pro Xaa Phe Phe Phe Phe Asn Ser Phe Ser Asn Cys Ser Leu Phe
                50   55   60

Phe Pro Tyr Xaa Leu
65

<210> 257
<211> 21
<212> PRT
<213> Homo sapiens

<400> 257
Thr Arg Pro Glu Lys Val Gln Ala Pro Leu Lys Trp Phe Lys Phe Gln
1   5   10   15

Ile Leu Asp Pro Pro
                20

<210> 258
<211> 272
<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (229)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 258
```
Ser Ala Glu Phe Gly Val Ala Pro Leu Pro Gly Arg Arg Gly Ser Pro
 1               5                  10                  15

Val Arg Gln Leu Ala Gln Phe Arg Arg Arg Leu Leu Arg Gly Ser Gly
            20                  25                  30

Gly Arg Gly Ala Pro Gly Arg Pro Pro Arg Cys Pro Gly Glu Ala Arg
            35                  40                  45

Val Met Xaa Pro Pro Ser Cys Ile Gln Asp Glu Pro Phe Pro His Pro
     50                  55                  60

Leu Glu Pro Glu Pro Gly Val Ser Ala Gln Pro Gly Pro Gly Lys Pro
 65                  70                  75                  80

Ser Asp Lys Arg Phe Arg Leu Trp Tyr Val Gly Gly Ser Cys Leu Asp
                85                  90                  95

His Arg Thr Thr Leu Pro Met Leu Pro Trp Leu Met Ala Glu Ile Arg
            100                 105                 110

Arg Arg Ser Gln Lys Pro Glu Ala Gly Gly Cys Gly Ala Pro Ala Ala
        115                 120                 125

Arg Glu Val Ile Leu Val Leu Ser Ala Pro Phe Leu Arg Cys Val Pro
        130                 135                 140

Ala Pro Gly Ala Gly Ala Ser Gly Gly Thr Ser Pro Ser Ala Thr Gln
145                 150                 155                 160

Pro Asn Pro Ala Val Phe Ile Phe Glu His Lys Ala Gln His Ile Ser
                165                 170                 175

Arg Phe Ile His Asn Ser His Asp Leu Thr Tyr Phe Ala Tyr Leu Ile
            180                 185                 190

Lys Ala Gln Pro Asp Asp Pro Glu Ser Gln Met Ala Cys His Val Phe
        195                 200                 205

Arg Ala Thr Asp Pro Ser Gln Val Pro Asp Val Ile Ser Ser Ile Arg
    210                 215                 220

Gln Leu Ser Lys Xaa Ala Met Lys Glu Asp Ala Lys Pro Ser Lys Asp
225                 230                 235                 240

Asn Glu Asp Ala Phe Tyr Asn Ser Gln Lys Phe Glu Val Leu Tyr Cys
                245                 250                 255

Gly Lys Val Thr Val Thr Pro Gln Glu Gly Pro Leu Lys Pro His Arg
                260                 265                 270
```

<210> 259
<211> 14
<212> PRT
<213> Homo sapiens

<400> 259
Pro Met Leu Pro Trp Leu Met Ala Glu Ile Arg Arg Arg Ser
 1   5   10

<210> 260
<211> 19
<212> PRT
<213> Homo sapiens

<400> 260
Ile His Asn Ser His Asp Leu Thr Tyr Phe Ala Tyr Leu Ile Lys Ala
 1   5   10   15

Gln Pro Asp

<210> 261
<211> 12
<212> PRT
<213> Homo sapiens

<400> 261
Lys Phe Glu Val Leu Tyr Cys Gly Lys Val Thr Val
 1   5   10

<210> 262
<211> 13
<212> PRT
<213> Homo sapiens

<400> 262
Ile Ser Ser Ile Arg Gln Leu Ser Lys Ala Met Lys Glu
 1   5   10

<210> 263
<211> 20
<212> PRT
<213> Homo sapiens

<400> 263
Gly Glu Arg Arg Asn Trp Gly Gly Glu Val Tyr Tyr Ser Thr Gly Tyr
 1   5   10   15

Ser Ser Arg Lys
          20

<210> 264
<211> 9

<212> PRT
<213> Homo sapiens

<400> 264
Glu Pro Gly Ala Ala Gln Glu Ser Trp
  1   5

<210> 265
<211> 202
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 265
Leu Cys Ala Arg Pro Ser Cys Ser Tyr Thr Gly Ala Glu Asn Gln Gly
  1   5   10   15

Gln Pro Arg Ser Pro Gly Trp Gly Ser Ser His Val Gly Trp Gly Trp
            20   25   30

Gly Val Gly Ser Pro Phe Leu Gly Ser Gln Glu Trp Ser Gly Leu Ala
            35   40   45

Pro Asp Leu Pro Asp Gln Glu Glu Glu Gln Pro Val Gly Arg His Ser
        50   55   60

Cys Pro Asp Met Ser Gln Cys Ile Lys Arg Gly His Gln Pro Val Gly
 65   70   75   80

Phe Ser Lys His Ala Trp Arg Cys Leu Val Gly Cys Cys Pro Trp Glu
                85   90   95

Glu Glu Lys Arg Ser Cys His Pro Phe Gly Ala Xaa Leu Leu Trp Val
                100   105   110

Leu Arg Phe Ala Leu Gln Pro Xaa Val Tyr Glu Asp Pro Ala Ala Leu
            115   120   125

Asp Gly Gly Glu Glu Gly Met Asp Ile Xaa Thr His Ile Leu Ala Leu
        130   135   140

Ala Pro Arg Leu Leu Lys Asp Ser Gly Ser Ile Phe Leu Glu Val Asp
145   150   155   160

Pro Arg His Pro Xaa Leu Val Ser Ser Trp Leu Gln Ser Arg Pro Asp

```
                 165                   170                   175
Leu Tyr Leu Asn Leu Val Ala Val Arg Arg Asp Phe Cys Gly Arg Pro
            180                   185                   190

Arg Phe Leu His Ile Arg Arg Ser Gly Pro
        195                   200
```

<210> 266
<211> 37
<212> PRT
<213> Homo sapiens

<400> 266
```
Leu Cys Ala Arg Pro Ser Cys Ser Tyr Thr Gly Ala Glu Asn Gln Gly
 1               5                   10                  15

Gln Pro Arg Ser Pro Gly Trp Gly Ser Ser His Val Gly Trp Gly Trp
            20                  25                  30

Gly Val Gly Ser Pro
        35
```

<210> 267
<211> 37
<212> PRT
<213> Homo sapiens

<400> 267
```
Phe Leu Gly Ser Gln Glu Trp Ser Gly Leu Ala Pro Asp Leu Pro Asp
 1               5                   10                  15

Gln Glu Glu Glu Gln Pro Val Gly Arg His Ser Cys Pro Asp Met Ser
            20                  25                  30

Gln Cys Ile Lys Arg
        35
```

<210> 268
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 268
```
Gly His Gln Pro Val Gly Phe Ser Lys His Ala Trp Arg Cys Leu Val
 1               5                   10                  15

Gly Cys Cys Pro Trp Glu Glu Glu Lys Arg Ser Cys His Pro Phe Gly
            20                  25                  30

Ala Xaa Leu Leu Trp
        35
```

<210> 269
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 269
Val Leu Arg Phe Ala Leu Gln Pro Xaa Val Tyr Glu Asp Pro Ala Ala
 1   5   10   15

Leu Asp Gly Gly Glu Glu Gly Met Asp Ile Xaa Thr His Ile Leu Ala
            20   25   30

Leu Ala Pro Arg Leu
        35

<210> 270
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 270
Leu Lys Asp Ser Gly Ser Ile Phe Leu Glu Val Asp Pro Arg His Pro
 1   5   10   15

Xaa Leu Val Ser Ser Trp Leu Gln Ser Arg Pro Asp Leu Tyr Leu Asn
            20   25   30

Leu Val Ala Val Arg Arg Asp Phe Cys Gly Arg Pro Arg Phe Leu His
            35   40   45

Ile Arg Arg Ser Gly Pro
        50

<210> 271
<211> 19
<212> PRT
<213> Homo sapiens

<400> 271
Gln Glu Leu Leu Val Lys Ile Pro Leu Asp Met Val Ala Gly Phe Asn
 1   5   10   15

Thr Pro Leu

<210> 272
<211> 26
<212> PRT
<213> Homo sapiens

<400> 272
```
Leu Arg Ile Gln Leu Leu His Lys Leu Ser Phe Leu Val Asn Ala Leu
 1               5                  10                  15

Ala Lys Gln Val Met Asn Leu Leu Val Pro
            20                  25
```


<210> 273
<211> 20
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 273
```
His Xaa Ile Trp Leu Lys Val Ile Thr Xaa Asn Ile Leu Gln Leu Gln
 1               5                  10                  15

Val Lys Pro Ser
            20
```


<210> 274
<211> 58
<212> PRT
<213> Homo sapiens

<400> 274
```
Ala Gly Pro Trp Thr Phe Thr Leu Leu Cys Gly Leu Leu Ala Ala Thr
 1               5                  10                  15

Leu Ile Gln Ala Thr Leu Ser Pro Thr Ala Val Leu Ile Leu Gly Pro
            20                  25                  30

Lys Val Ile Lys Glu Lys Leu Thr Gln Glu Leu Lys Asp His Asn Ala
        35                  40                  45

Thr Ser Ile Leu Gln Gln Leu Pro Leu Leu
        50                  55
```


<210> 275
<211> 15
<212> PRT
<213> Homo sapiens

<400> 275
```
His Phe Ile Ile Thr Leu Thr Thr Phe Phe Thr Asn Tyr Phe Leu
 1               5                  10                  15
```

<210> 276
<211> 99
<212> PRT
<213> Homo sapiens

<400> 276
Met Lys Ile Thr Phe Gln Asp Leu Phe Pro Met Trp Asn Ser Phe Lys
1   5   10   15

Cys Phe Leu His Gly Asn Val Phe Ser Leu Phe Val Leu Phe Pro Leu
            20   25   30

Leu Thr Cys Phe Ser Phe Pro Tyr Thr Val Asn Ser Gly Thr Lys Leu
            35   40   45

Asp Trp Val Gly Trp Leu Val Gly Trp Phe Phe Leu Glu Phe Met Tyr
    50   55   60

Ile Asn Lys Gly Phe Glu Val Thr Ser Glu Asn Asn Ile Ser Lys Arg
65   70   75   80

Val Leu Val Arg Glu Asn Ile Arg Ile Lys Ser Ser Pro Glu Arg Val
                85   90   95

Leu Arg Met

<210> 277
<211> 19
<212> PRT
<213> Homo sapiens

<400> 277
Arg Phe Trp Gly Ser Tyr Glu Pro His Phe Ser Gln Glu Val Ser Val
1   5   10   15

Ile Pro Pro

<210> 278
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 278
Ile Arg Gly Asn Tyr Phe Ser Gly Arg Lys Lys Ser Ser Ser Asp Thr
1   5   10   15

Pro Lys Gly Ser Lys Asp Lys Ile Ser Val Trp Asn Arg Ser Gln Xaa
            20   25   30

Ala Cys Ile Arg Ile Cys Lys Val His Pro Asn Tyr Ile Gln Ile Tyr
            35   40   45

Leu Trp His Ser Ala Thr Ser Phe
    50   55

<210> 279
<211> 74
<212> PRT
<213> Homo sapiens

<400> 279
Ala Gly Asn Gln Val Glu Pro Phe His Val Ser Leu Pro Ser Cys Leu
  1   5   10   15

Ser Pro Leu Pro His Leu Gly His Ser Met Gly Val Pro Ser Pro Thr
            20   25   30

Ala Trp Pro Ser Leu Ala Ser Phe His Thr Gln Lys Lys Ala Arg Ile
          35   40   45

Arg Gln Glu Glu Glu Ser Pro Pro Leu Pro Ser Pro Gln Glu Leu Ala
    50   55   60

Phe Ser Ala Leu Arg Val Phe Phe Arg Val
 65   70

<210> 280
<211> 38
<212> PRT
<213> Homo sapiens

<400> 280
Phe Ile Gln Gln Asn Ile Ser Phe Leu Leu Gly Tyr Ser Ile Pro Val
  1   5   10   15

Gly Cys Val Gly Leu Ala Phe Phe Ile Phe Leu Phe Ala Thr Pro Val
            20   25   30

Phe Ile Thr Lys Pro Pro
          35

<210> 281
<211> 347
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (340)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (341)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 281

Val Ser Ala His His Pro Ser Gly Ala Asp Glu Gly Val Thr Ala Xaa
 1   5   10   15

Gln Ile Leu Pro Thr Glu Glu Tyr Glu Glu Ala Met Ser Thr Met Gln
             20   25   30

Val Ser Gln Leu Asp Leu Phe Arg Leu Leu Asp Gln Asn Arg Asp Gly
         35   40   45

His Leu Gln Leu Arg Glu Val Leu Ala Gln Thr Arg Leu Gly Asn Gly
     50   55   60

Trp Trp Met Thr Pro Glu Ser Ile Gln Glu Met Tyr Ala Ala Ile Lys
 65   70   75   80

Ala Asp Pro Asp Gly Asp Gly Val Leu Ser Leu Gln Glu Phe Ser Asn
             85   90   95

Met Asp Leu Arg Asp Phe His Lys Tyr Met Arg Ser His Lys Ala Glu
         100   105   110

Ser Ser Glu Leu Val Arg Asn Ser His His Thr Trp Leu Tyr Gln Gly
     115   120   125

Glu Gly Ala His His Ile Met Arg Ala Ile Arg Gln Arg Val Leu Arg
     130   135   140

Leu Thr Arg Leu Ser Pro Glu Ile Val Glu Leu Ser Glu Pro Leu Gln
145   150   155   160

Val Val Arg Tyr Gly Glu Gly Gly His Tyr His Ala His Val Asp Ser
             165   170   175

Gly Pro Val Tyr Pro Glu Thr Ile Cys Ser His Thr Lys Leu Val Ala
             180   185   190

Asn Glu Ser Val Pro Phe Glu Thr Ser Cys Arg Tyr Met Thr Val Leu
     195   200   205

Phe Tyr Leu Asn Asn Val Thr Gly Gly Gly Glu Thr Val Phe Pro Val
     210   215   220

Ala Asp Asn Arg Thr Tyr Asp Glu Met Ser Leu Ile Gln Asp Asp Val
225   230   235   240

Asp Leu Arg Asp Thr Arg Arg His Cys Asp Lys Gly Asn Leu Arg Val
             245   250   255

Lys Pro Gln Gln Gly Thr Ala Val Phe Trp Tyr Asn Tyr Leu Pro Asp
             260   265   270

Gly Gln Gly Trp Val Gly Asp Val Asp Asp Tyr Ser Leu His Gly Gly
     275   280   285

Cys Leu Val Thr Arg Gly Thr Lys Trp Ile Ala Asn Asn Trp Ile Asn
     290   295   300

Val Asp Pro Ser Arg Ala Arg Gln Ala Leu Phe Gln Gln Glu Met Ala
305   310   315   320

Arg Leu Ala Arg Glu Gly Gly Thr Asp Ser Gln Pro Glu Trp Ala Leu
             325   330   335

Asp Arg Ala Xaa Xaa Asp Ala Arg Val Glu Leu
             340   345

```
<210> 282
<211> 6
<212> PRT
<213> Homo sapiens

<400> 282
Ala Val Phe Trp Tyr Asn
  1               5
```

```
<210> 283
<211> 18
<212> PRT
<213> Homo sapiens

<400> 283
Thr Val Leu Phe Tyr Leu Asn Asn Val Thr Gly Gly Gly Glu Thr Val
  1               5                  10                  15

Phe Pro
```

```
<210> 284
<211> 59
<212> PRT
<213> Homo sapiens

<400> 284
Asp Leu Phe Arg Leu Leu Asp Gln Asn Arg Asp Gly His Leu Gln Leu
  1               5                  10                  15

Arg Glu Val Leu Ala Gln Thr Arg Leu Gly Asn Gly Trp Trp Met Thr
               20                  25                  30

Pro Glu Ser Ile Gln Glu Met Tyr Ala Ala Ile Lys Ala Asp Pro Asp
           35                  40                  45

Gly Asp Gly Val Leu Ser Leu Gln Glu Phe Ser
       50                  55
```

```
<210> 285
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 285
Val Ser Ala His His Pro Ser Gly Ala Asp Glu Gly Val Thr Ala Xaa
  1               5                  10                  15

Gln Ile Leu Pro Thr Glu Glu Tyr Glu Glu Ala Met Ser Thr Met Gln
               20                  25                  30

Val Ser Gln Leu Asp Leu
           35
```

<210> 286
<211> 38
<212> PRT
<213> Homo sapiens

<400> 286
Phe Arg Leu Leu Asp Gln Asn Arg Asp Gly His Leu Gln Leu Arg Glu
 1   5   10   15

Val Leu Ala Gln Thr Arg Leu Gly Asn Gly Trp Trp Met Thr Pro Glu
            20   25   30

Ser Ile Gln Glu Met Tyr
            35

<210> 287
<211> 38
<212> PRT
<213> Homo sapiens

<400> 287
Ala Ala Ile Lys Ala Asp Pro Asp Gly Asp Gly Val Leu Ser Leu Gln
 1   5   10   15

Glu Phe Ser Asn Met Asp Leu Arg Asp Phe His Lys Tyr Met Arg Ser
            20   25   30

His Lys Ala Glu Ser Ser
            35

<210> 288
<211> 38
<212> PRT
<213> Homo sapiens

<400> 288
Glu Leu Val Arg Asn Ser His His Thr Trp Leu Tyr Gln Gly Glu Gly
 1   5   10   15

Ala His His Ile Met Arg Ala Ile Arg Gln Arg Val Leu Arg Leu Thr
            20   25   30

Arg Leu Ser Pro Glu Ile
            35

<210> 289
<211> 38
<212> PRT
<213> Homo sapiens

<400> 289
Val Glu Leu Ser Glu Pro Leu Gln Val Val Arg Tyr Gly Glu Gly Gly
 1   5   10   15

His Tyr His Ala His Val Asp Ser Gly Pro Val Tyr Pro Glu Thr Ile
            20   25   30

Cys Ser His Thr Lys Leu
35

<210> 290
<211> 38
<212> PRT
<213> Homo sapiens

<400> 290
Val Ala Asn Glu Ser Val Pro Phe Glu Thr Ser Cys Arg Tyr Met Thr
1   5   10   15

Val Leu Phe Tyr Leu Asn Asn Val Thr Gly Gly Gly Glu Thr Val Phe
            20   25   30

Pro Val Ala Asp Asn Arg
            35

<210> 291
<211> 38
<212> PRT
<213> Homo sapiens

<400> 291
Thr Tyr Asp Glu Met Ser Leu Ile Gln Asp Asp Val Asp Leu Arg Asp
1   5   10   15

Thr Arg Arg His Cys Asp Lys Gly Asn Leu Arg Val Lys Pro Gln Gln
            20   25   30

Gly Thr Ala Val Phe Trp
            35

<210> 292
<211> 38
<212> PRT
<213> Homo sapiens

<400> 292
Tyr Asn Tyr Leu Pro Asp Gly Gln Gly Trp Val Gly Asp Val Asp Asp
1   5   10   15

Tyr Ser Leu His Gly Gly Cys Leu Val Thr Arg Gly Thr Lys Trp Ile
            20   25   30

Ala Asn Asn Trp Ile Asn
            35

<210> 293
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 293
Val Asp Pro Ser Arg Ala Arg Gln Ala Leu Phe Gln Gln Glu Met Ala
 1   5   10   15

Arg Leu Ala Arg Glu Gly Gly Thr Asp Ser Gln Pro Glu Trp Ala Leu
            20   25   30

Asp Arg Ala Xaa Xaa Asp Ala Arg Val Glu Leu
          35   40

<210> 294
<211> 15
<212> PRT
<213> Homo sapiens

<400> 294
Leu Leu Ala Asp Leu Met Arg Asn Tyr Asp Pro His Leu Arg Pro
 1   5   10   15

<210> 295
<211> 19
<212> PRT
<213> Homo sapiens

<400> 295
Ile Ser Val Thr Tyr Phe Pro Phe Asp Trp Gln Asn Cys Ser Leu Ile
 1   5   10   15

Phe Gln Ser

<210> 296
<211> 16
<212> PRT
<213> Homo sapiens

<400> 296
Ser Met Ala Arg Gly Val Arg Lys Val Phe Leu Arg Leu Leu Pro Gln
 1   5   10   15

<210> 297
<211> 18
<212> PRT
<213> Homo sapiens

<400> 297
Gln Ala Ser Pro Ala Ile Gln Ala Cys Val Asp Ala Cys Asn Leu Met
 1   5   10   15

Ala Arg

<210> 298
<211> 17
<212> PRT
<213> Homo sapiens

<400> 298
Tyr Asn Gln Val Pro Asp Leu Pro Phe Pro Gly Asp Pro Arg Pro Tyr
 1   5   10   15

Leu

<210> 299
<211> 15
<212> PRT
<213> Homo sapiens

<400> 299
Cys Ser Ile Ser Val Thr Tyr Phe Pro Phe Asp Trp Gln Asn Cys
 1   5   10   15

<210> 300
<211> 18
<212> PRT
<213> Homo sapiens

<400> 300
Val Leu Lys Tyr Ala Leu Phe Leu Val Leu Lys Asn Tyr Tyr Tyr Cys
 1   5   10   15

Pro Tyr

<210> 301
<211> 315
<212> PRT
<213> Homo sapiens

<400> 301
Met Arg Glu Tyr Gly Val Glu Arg Asp Leu Ala Val Tyr Asn Gln Leu
 1   5   10   15

Leu Asn Ile Phe Pro Lys Glu Val Phe Arg Pro Arg Asn Ile Ile Gln
                20   25   30

Arg Ile Phe Val His Tyr Pro Arg Gln Gln Glu Cys Gly Ile Ala Val
            35   40   45

Leu Glu Gln Met Glu Asn His Gly Val Met Pro Asn Lys Glu Thr Glu
        50   55   60

Phe Leu Leu Ile Gln Ile Phe Gly Arg Lys Ser Tyr Pro Met Leu Lys
    65   70   75   80

Leu Val Arg Leu Lys Leu Trp Phe Pro Arg Phe Met Asn Val Asn Pro
                85   90   95

```
Phe Pro Val Pro Arg Asp Leu Pro Gln Asp Pro Val Glu Leu Ala Met
            100             105             110

Phe Gly Leu Arg His Met Glu Pro Asp Leu Ser Ala Arg Val Thr Ile
        115             120             125

Tyr Gln Val Pro Leu Pro Lys Asp Ser Thr Gly Ala Ala Asp Pro Pro
    130             135             140

Gln Pro His Ile Val Gly Ile Gln Ser Pro Asp Gln Gln Ala Ala Leu
145             150             155             160

Ala Arg His Asn Pro Ala Arg Pro Val Phe Val Glu Gly Pro Phe Ser
            165             170             175

Leu Trp Leu Arg Asn Lys Cys Val Tyr Tyr His Ile Leu Arg Ala Asp
        180             185             190

Leu Leu Pro Pro Glu Glu Arg Glu Val Glu Glu Thr Pro Glu Glu Trp
        195             200             205

Asn Leu Tyr Tyr Pro Met Gln Leu Asp Leu Glu Tyr Val Arg Ser Gly
    210             215             220

Trp Asp Asn Tyr Glu Phe Asp Ile Asn Glu Val Glu Glu Gly Pro Val
225             230             235             240

Phe Ala Met Cys Met Ala Gly Ala His Asp Gln Ala Thr Met Ala Lys
            245             250             255

Trp Ile Gln Gly Leu Gln Glu Thr Asn Pro Thr Leu Ala Gln Ile Pro
            260             265             270

Val Val Phe Arg Leu Ala Gly Ser Thr Arg Glu Leu Gln Thr Ser Ser
    275             280             285

Ala Gly Leu Glu Glu Pro Pro Leu Pro Glu Asp His Gln Glu Glu Asp
    290             295             300

Asp Asn Leu Gln Arg Gln Gln Gln Gly Gln Ser
305             310             315
```

<210> 302
<211> 19
<212> PRT
<213> Homo sapiens

<400> 302
```
Phe Gln Phe Gly Trp Ala Ser Thr Gln Ile Ser His Leu Ser Leu Ile
 1               5                   10                  15

Pro Glu Leu
```

<210> 303
<211> 14
<212> PRT
<213> Homo sapiens

<400> 303
```
Leu Arg Tyr Ala Phe Thr Val Val Ala Asn Ile Thr Val Tyr
```

1　　　　　5　　　　　　　　10

<210> 304
<211> 17
<212> PRT
<213> Homo sapiens

<400> 304
Phe Val Tyr Gly Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu
 1   5   10   15

Ala

<210> 305
<211> 17
<212> PRT
<213> Homo sapiens

<400> 305
Trp His Leu Val Gly Thr Val Cys Val Leu Leu Ser Phe Pro Phe Ile
 1   5   10   15

Phe

<210> 306
<211> 15
<212> PRT
<213> Homo sapiens

<400> 306
Gly His Phe Leu Asn Asp Leu Cys Ala Ser Met Trp Phe Thr Tyr
 1   5   10   15

<210> 307
<211> 40
<212> PRT
<213> Homo sapiens

<400> 307
Ala Ile Pro Leu Arg Val Leu Val Val Leu Trp Ala Phe Val Leu Gly
 1   5   10   15

Leu Ser Arg Val Met Leu Gly Arg His Asn Val Thr Asp Val Ala Phe
            20   25   30

Gly Phe Phe Leu Gly Tyr Met Gln
            35   40

<210> 308
<211> 13
<212> PRT
<213> Homo sapiens

<400> 308

Val Gly Leu Ser Arg Val Leu Gly Arg His Thr Asp Val
 1   5   10

<210> 309
<211> 17
<212> PRT
<213> Homo sapiens

<400> 309
Ser Phe Tyr Lys Met Lys Arg Asn Ser Tyr Asp Arg Leu Arg Lys Val
 1   5   10   15

Val

<210> 310
<211> 39
<212> PRT
<213> Homo sapiens

<400> 310
Leu His Gln Leu Arg Pro Pro His Arg Phe Pro Leu Ile Pro Pro Ala
 1   5   10   15

Ala Ala Glu Gly Ala Gly Ala Pro Pro Gly Cys Gly Tyr Cys Val Phe
                20   25   30

Trp Leu Leu Asn Pro Leu Pro
            35

<210> 311
<211> 72
<212> PRT
<213> Homo sapiens

<400> 311
Met Pro Trp Lys Arg Ala Val Val Leu Leu Met Leu Trp Phe Ile Gly
 1   5   10   15

Gln Ala Met Trp Leu Ala Pro Ala Tyr Val Leu Glu Phe Gln Gly Lys
                20   25   30

Asn Thr Phe Leu Phe Ile Trp Leu Ala Gly Leu Phe Phe Leu Leu Ile
            35   40   45

Asn Cys Ser Ile Leu Ile Gln Ile Ile Ser His Tyr Lys Glu Glu Pro
        50   55   60

Leu Thr Glu Arg Ile Lys Tyr Asp
 65   70

<210> 312
<211> 22
<212> PRT
<213> Homo sapiens

<400> 312
Ala Arg Ala Gln Pro Phe Ala Phe Gln Leu Arg Pro Ala Pro Gly Arg

```
        1              5                10                    15

Pro Gly Ser Pro Val Ala
              20
```

<210> 313
<211> 297
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (297)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 313

```
Ala Gly Leu Pro Gly Ala Leu Thr Ala Pro Ala Xaa His His His Ala
 1               5                10                    15

Asp Ser Arg Pro Ala Glu Leu Val Val Gln Pro Leu Ser Pro Pro Arg
              20                25                30

Pro Leu Leu Ser His Ala Gly Leu Ala Ser Ala Ala Gly Ala Ser Ser
          35                40                45

Leu Xaa Arg Val Pro Gly Glu Ala Glu Ser Leu Cys Ala Leu Ser Pro
      50                55                60

Gly Ser Ala Leu Arg Phe Pro Ala Ala Ser Cys Ser Arg Pro Xaa Arg
 65                70                75                    80

Glu Pro Ser Gly Asp Glu Gly Thr Ala Gly Ala Leu Pro Ser Pro Trp
              85                90                95

Leu Ala Ala Leu Gly Pro Gly Gly Arg Pro Ala Val Arg Arg Val Leu
              100               105               110

Pro Arg Leu Gly Gly Arg Ala Gly Gln Leu Pro Arg Gly Leu Pro Val
          115               120               125

Pro Arg Gly Leu Arg His Ala Gly Arg Tyr His Leu Leu Arg Leu Leu
      130               135               140

Arg Ala Pro Leu Leu Leu Arg Arg Gly Arg Arg Gln Ala Gly Ala Gly
145               150               155               160

Arg Leu His Gln Arg Pro Pro Arg Thr Gly Ala Pro Arg His His Cys
              165               170               175
```

```
Ala Ala Cys Leu Arg Pro Leu Ser His Arg Arg Leu His Leu His Cys
            180                 185                 190

Val His His Pro Gly Leu Cys Ser Gly Tyr Leu Leu Leu His Leu Phe
        195                 200                 205

Glu Thr Gln Gly Ala Leu Ala Ala Ala Asn Pro Leu Leu Thr Pro Gln
    210                 215                 220

Leu Ser Asp Arg Asp Pro Ala His Asp Pro Asp Leu His Gln Pro Gln
225                 230                 235                 240

Gly Thr Leu Pro Ala Val Gln His Ser His Glu Leu Gln Leu His Arg
            245                 250                 255

Arg Leu His Pro Gln Val Leu Leu Ser His Leu Val Ser Trp Cys His
        260                 265                 270

Pro Ser Ile Ser Leu Thr Pro Phe Ser Arg Ser Pro His Trp Leu Gly
        275                 280                 285

Arg Ala Val Gln Thr Phe Ser Ser Xaa
    290                 295
```

```
<210> 314
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 314
Ala Gly Leu Pro Gly Ala Leu Thr Ala Pro Ala Xaa His His His Ala
  1           5               10              15

Asp Ser Arg Pro Ala Glu Leu Val Val Gln Pro Leu Ser Pro Pro Arg
            20              25              30

Pro Leu Leu Ser His Ala
          35
```

```
<210> 315
<211> 40
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 315
Gly Leu Ala Ser Ala Ala Gly Ala Ser Ser Leu Xaa Arg Val Pro Gly
  1           5               10              15

Glu Ala Glu Ser Leu Cys Ala Leu Ser Pro Gly Ser Ala Leu Arg Phe
            20              25              30

Pro Ala Ala Ser Cys Ser Arg Pro
```

35   40

<210> 316
<211> 40
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 316
Xaa Arg Glu Pro Ser Gly Asp Glu Gly Thr Ala Gly Ala Leu Pro Ser
 1   5   10   15

Pro Trp Leu Ala Ala Leu Gly Pro Gly Gly Arg Pro Ala Val Arg Arg
              20   25   30

Val Leu Pro Arg Leu Gly Gly Arg
          35   40

<210> 317
<211> 40
<212> PRT
<213> Homo sapiens

<400> 317
Ala Gly Gln Leu Pro Arg Gly Leu Pro Val Pro Arg Gly Leu Arg His
 1   5   10   15

Ala Gly Arg Tyr His Leu Leu Arg Leu Leu Arg Ala Pro Leu Leu Leu
              20   25   30

Arg Arg Gly Arg Arg Gln Ala Gly
          35   40

<210> 318
<211> 40
<212> PRT
<213> Homo sapiens

<400> 318
Ala Gly Arg Leu His Gln Arg Pro Pro Arg Thr Gly Ala Pro Arg His
 1   5   10   15

His Cys Ala Ala Cys Leu Arg Pro Leu Ser His Arg Arg Leu His Leu
              20   25   30

His Cys Val His His Pro Gly Leu
          35   40

<210> 319
<211> 40
<212> PRT
<213> Homo sapiens

<400> 319

Cys Ser Gly Tyr Leu Leu Leu His Leu Phe Glu Thr Gln Gly Ala Leu
1   5   10   15

Ala Ala Ala Asn Pro Leu Leu Thr Pro Gln Leu Ser Asp Arg Asp Pro
            20   25   30

Ala His Asp Pro Asp Leu His Gln
        35   40

<210> 320
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 320
Pro Gln Gly Thr Leu Pro Ala Val Gln His Ser His Glu Leu Gln Leu
1   5   10   15

His Arg Arg Leu His Pro Gln Val Leu Leu Ser His Leu Val Ser Trp
            20   25   30

Cys His Pro Ser Ile Ser Leu Thr Pro Phe Ser Arg Ser Pro His Trp
        35   40   45

Leu Gly Arg Ala Val Gln Thr Phe Ser Ser Xaa
    50   55

<210> 321
<211> 28
<212> PRT
<213> Homo sapiens

<400> 321
Val Ala His Thr Cys Asn Leu Ser Thr Leu Gly Gly Gln Gly Gly Arg
1   5   10   15

Ile Glu Arg Thr Ala Gly Gln Glu Phe Lys Thr Ser
            20   25

<210> 322
<211> 115
<212> PRT
<213> Homo sapiens

<400> 322
His Tyr Lys Ser Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Arg Gly Arg
1   5   10   15

Val Asp Glu Val Leu Thr Asn Cys His Trp Thr Tyr Leu Lys Gln Asn
            20   25   30

Arg Lys Met Ala Ala Asn Ser Ser Gly Gln Ala Leu His Ser Arg Asp
        35   40   45

Pro Leu Leu Ile Arg Thr Ser Gly Ile Thr Leu Ser Ser Ser Ile Leu

```
            50                      55                      60
Gln Pro Asn Arg Arg Gln Leu Cys Ser Met Leu Met His Ile His Leu
65                      70                  75                  80

Asp Thr Ser Ser Leu Lys Thr Leu His Leu Gly Thr Leu Phe Phe Leu
                    85                  90                  95

Phe Tyr Leu Ala Leu Thr Gln Asn Glu Glu Asn Ile Cys Asp Gly Lys
                100                 105                 110

Val Thr Leu
        115
```

<210> 323
<211> 19
<212> PRT
<213> Homo sapiens

<400> 323
```
Thr Ile Lys Met Gln Thr Glu Asn Leu Gly Val Val Tyr Tyr Val Asn
 1               5                  10                  15

Lys Asp Phe
```

<210> 324
<211> 13
<212> PRT
<213> Homo sapiens

<400> 324
```
Val Glu Glu Asp Tyr Val Thr Asn Ile Arg Asn Asn Cys
 1               5                  10
```

<210> 325
<211> 7
<212> PRT
<213> Homo sapiens

<400> 325
```
Met Val Ser Asn Pro Pro Tyr
 1               5
```

<210> 326
<211> 5
<212> PRT
<213> Homo sapiens

<400> 326
```
His Ala Ser Glu Leu
 1               5
```

<210> 327
<211> 129
<212> PRT

<213> Homo sapiens

<400> 327
Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser
 1   5   10   15

Thr His Ala Ser Glu Leu Met Pro Ile Ile Val Leu Ile Leu Val Ser
                20   25   30

Leu Leu Ser Gln Leu Met Val Ser Asn Pro Pro Tyr Ser Leu Tyr Pro
            35   40   45

Arg Ser Gly Thr Gly Gln Thr Ile Lys Met Gln Thr Glu Asn Leu Gly
    50   55   60

Val Val Tyr Tyr Val Asn Lys Asp Phe Lys Asn Glu Tyr Lys Gly Met
65   70   75   80

Leu Leu Gln Lys Val Glu Lys Ser Val Glu Glu Asp Tyr Val Thr Asn
                85   90   95

Ile Arg Asn Asn Cys Trp Lys Glu Arg Gln Gln Lys Thr Asp Met Gln
                100   105   110

Tyr Ala Ala Lys Val Tyr Arg Asp Asp Arg Leu Arg Arg Arg Gln Met
        115   120   125

Pro

<210> 328
<211> 35
<212> PRT
<213> Homo sapiens

<400> 328
Leu Val Ala Leu Asp Arg Met Glu Tyr Val Arg Thr Phe Arg Lys Arg
 1   5   10   15

Glu Asp Leu Arg Gly Arg Leu Phe Trp Val Ala Leu Asp Leu Leu Asp
            20   25   30

Leu Leu Asp
        35

<210> 329
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 329
Ser Val Ala Leu Phe Tyr Asn Phe Gly Lys Ser Trp Lys Ser Asp Pro
 1   5   10   15

Gly Ile Ile Lys Xaa Thr Glu Glu Gln Lys Lys Lys Thr Ile Val Glu
            20   25   30

Leu Ala Glu Thr Gly Ser Leu Asp Leu Ser Ile Phe Cys Ser Thr Cys
        35   40   45

Leu Ile Arg Lys Pro Val Arg Ser Lys His Cys Gly Val Cys Asn Arg
    50   55   60

Cys Ile Ala Lys Phe Asp His His Cys Pro Trp Val Gly Asn Cys Val
65   70   75   80

Gly Ala Gly Asn His Arg Tyr Phe
                85

<210> 330
<211> 12
<212> PRT
<213> Homo sapiens

<400> 330
Phe Asp His His Cys Pro Trp Val Gly Asn Cys Val
 1   5   10

<210> 331
<211> 20
<212> PRT
<213> Homo sapiens

<400> 331
Gln Met Tyr Gln Ile Ser Cys Leu Gly Ile Thr Thr Asn Glu Arg Met
 1   5   10   15

Asn Ala Arg Arg
            20

<210> 332
<211> 12
<212> PRT
<213> Homo sapiens

<400> 332
Arg Val Thr Ser Ser Leu Ala Met Leu Ser Asp Ser
 1   5   10

<210> 333
<211> 15
<212> PRT
<213> Homo sapiens

<400> 333
Ala Ile Glu Arg Phe Ile Glu Pro His Glu Met Gln Gln Pro Leu
 1   5   10   15

<210> 334
<211> 49
<212> PRT
<213> Homo sapiens

<400> 334

```
Asn Ala Leu Val Phe Tyr Phe Ser Trp Lys Gly Cys Ser Glu Gly Asp
 1               5                  10                  15

Phe Cys Val Asn Pro Cys Phe Pro Asp Pro Cys Lys Pro Phe Val Glu
             20              25                  30

Ile Ile Asn Ser Thr His Ala Ser Val Tyr Glu Ala Gly Pro Cys Trp
         35                  40                  45

Val
```

<210> 335
<211> 307
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 335

```
Ala Gly Ile Arg His Glu Arg Asn Arg Gly Arg Leu Leu Cys Met Leu
 1               5                  10                  15

Ala Leu Thr Phe Met Phe Met Val Leu Glu Val Val Val Ser Arg Val
             20              25                  30

Thr Ser Ser Leu Ala Met Leu Ser Asp Ser Phe His Met Leu Ser Asp
         35                  40                  45

Val Leu Ala Leu Val Val Ala Leu Val Ala Glu Arg Phe Ala Arg Arg
     50                  55                  60

Thr His Ala Thr Gln Lys Asn Thr Phe Gly Trp Ile Arg Ala Glu Val
 65                  70                  75                  80

Met Gly Ala Leu Val Asn Ala Ile Phe Leu Thr Gly Leu Cys Phe Ala
             85                  90                  95

Ile Leu Leu Glu Ala Ile Glu Arg Phe Ile Glu Pro His Glu Met Gln
             100                 105                 110

Gln Pro Leu Val Val Leu Gly Val Gly Val Ala Gly Leu Leu Val Asn
         115                 120                 125

Val Leu Gly Leu Cys Leu Phe His His His Ser Gly Phe Ser Gln Asp
     130                 135                 140

Ser Gly His Xaa His Ser His Gly Gly His Gly His Gly His Gly Leu
145                 150                 155                 160

Pro Lys Gly Pro Arg Val Lys Ser Thr Arg Pro Gly Ser Ser Asp Ile
             165                 170                 175

Asn Val Ala Pro Gly Glu Gln Gly Pro Asp Gln Glu Glu Thr Asn Thr
             180                 185                 190

Leu Val Ala Asn Thr Ser Asn Ser Asn Gly Leu Lys Leu Asp Pro Ala
         195                 200                 205

Asp Pro Glu Asn Pro Arg Ser Gly Asp Thr Val Glu Val Gln Val Asn
```

```
            210                    215                    220
Gly Asn Leu Val Arg Glu Pro Asp His Met Glu Leu Glu Glu Asp Arg
225                 230                 235                 240

Ala Gly Gln Leu Asn Met Arg Gly Val Phe Leu His Val Leu Gly Asp
                245                 250                 255

Ala Leu Gly Ser Val Ile Val Val Val Asn Ala Leu Val Phe Tyr Phe
            260                 265                 270

Ser Trp Lys Gly Cys Ser Glu Gly Asp Phe Cys Val Asn Pro Cys Phe
            275                 280                 285

Pro Asp Pro Cys Lys Ala Phe Val Glu Ile Leu Ile Val Leu Met His
        290                 295                 300

Gln Phe Met
305


<210> 336
<211> 504
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (403)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 336
Ala Gly Ile Arg His Glu Arg Asn Arg Gly Arg Leu Leu Cys Met Leu
  1           5                 10                  15

Ala Leu Thr Phe Met Phe Met Val Leu Glu Val Val Val Ser Arg Val
            20                  25                  30

Thr Ser Ser Leu Ala Met Leu Ser Asp Ser Phe His Met Leu Ser Asp
        35                  40                  45

Val Leu Ala Leu Val Val Ala Leu Val Ala Glu Arg Phe Ala Arg Arg
    50                  55                  60

Thr His Ala Thr Gln Lys Asn Thr Phe Gly Trp Ile Arg Ala Glu Val
 65                 70                  75                  80

Met Gly Ala Leu Val Asn Ala Ile Phe Leu Thr Gly Leu Cys Phe Ala
                85                  90                  95

Ile Leu Leu Glu Ala Ile Glu Arg Phe Ile Glu Pro His Glu Met Gln
            100                 105                 110

Gln Pro Leu Val Val Leu Gly Val Gly Val Ala Gly Leu Leu Val Asn
        115                 120                 125

Val Leu Gly Leu Cys Leu Phe His His His Ser Gly Phe Ser Gln Asp
    130                 135                 140

Ser Gly His Xaa His Ser His Gly Gly His Gly His Gly His Gly Leu
```

```
145                    150                    155                    160
Pro Lys Gly Pro Arg Val Lys Ser Thr Arg Pro Gly Ser Ser Asp Ile
            165                 170                 175

Asn Val Ala Pro Gly Glu Gln Gly Pro Asp Gln Glu Glu Thr Asn Thr
            180                 185                 190

Leu Val Ala Asn Thr Ser Asn Ser Asn Gly Leu Lys Leu Asp Pro Ala
            195                 200                 205

Asp Pro Glu Asn Pro Arg Ser Gly Asp Thr Val Glu Val Gln Val Asn
    210                 215                 220

Gly Asn Leu Val Arg Glu Pro Asp His Met Glu Leu Glu Glu Asp Arg
225                 230                 235                 240

Ala Gly Gln Leu Asn Met Arg Gly Val Phe Leu His Val Leu Gly Asp
            245                 250                 255

Ala Leu Gly Ser Val Ile Val Val Val Asn Ala Leu Val Phe Tyr Phe
            260                 265                 270

Ser Trp Lys Gly Cys Ser Glu Gly Asp Phe Cys Val Asn Pro Cys Phe
            275                 280                 285

Pro Asp Pro Cys Lys Pro Phe Val Glu Ile Ile Asn Ser Thr His Ala
    290                 295                 300

Ser Val Tyr Glu Ala Gly Pro Cys Trp Val Leu Tyr Leu Asp Pro Thr
305                 310                 315                 320

Leu Cys Val Val Met Val Cys Ile Leu Leu Tyr Thr Thr Tyr Pro Leu
            325                 330                 335

Leu Lys Glu Ser Ala Leu Ile Leu Leu Gln Thr Val Pro Lys Gln Ile
            340                 345                 350

Asp Ile Arg Asn Leu Ile Lys Glu Leu Arg Asn Val Glu Gly Val Glu
            355                 360                 365

Glu Val His Glu Leu His Val Trp Gln Leu Ala Gly Ser Arg Ile Ile
    370                 375                 380

Ala Thr Ala His Ile Lys Cys Glu Asp Pro Thr Ser Tyr Met Glu Val
385                 390                 395                 400

Ala Lys Xaa Ile Lys Asp Val Phe His Asn His Gly Ile His Ala Thr
            405                 410                 415

Thr Ile Gln Pro Glu Phe Ala Ser Val Gly Ser Lys Ser Ser Val Val
            420                 425                 430

Pro Cys Glu Leu Ala Cys Arg Thr Gln Cys Ala Leu Lys Gln Cys Cys
            435                 440                 445

Gly Thr Leu Pro Gln Ala Pro Ser Gly Lys Asp Ala Glu Lys Thr Pro
    450                 455                 460

Ala Val Ser Ile Ser Cys Leu Glu Leu Ser Asn Asn Leu Glu Lys Lys
465                 470                 475                 480

Pro Arg Arg Thr Lys Ala Glu Asn Ile Pro Ala Val Val Ile Glu Ile
            485                 490                 495

Lys Asn Met Pro Lys Gln Thr Thr
```

500

<210> 337
<211> 254
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 337

```
Met Phe Thr Phe Ala Ser Met Thr Lys Glu Asp Ser Lys Leu Ile Ala
 1               5                  10                  15

Leu Ile Trp Pro Ser Glu Trp Gln Met Ile Gln Lys Leu Phe Val Val
            20                  25                  30

Asp His Val Ile Lys Ile Thr Arg Ile Glu Val Gly Asp Val Asn Pro
            35                  40                  45

Ser Glu Thr Gln Tyr Ile Ser Glu Pro Lys Leu Cys Pro Glu Cys Arg
        50                  55                  60

Glu Gly Leu Leu Cys Gln Gln Gln Arg Asp Leu Arg Glu Tyr Thr Gln
 65              70                  75                  80

Ala Thr Ile Tyr Val His Lys Val Val Asp Asn Lys Lys Val Met Lys
                85                  90                  95

Asp Ser Ala Pro Glu Leu Asn Val Ser Ser Ser Glu Thr Glu Glu Asp
            100                 105                 110

Lys Glu Glu Ala Lys Pro Asp Gly Glu Lys Asp Pro Asp Phe Asn Gln
            115                 120                 125

Ser Xaa Gly Gly Thr Lys Arg Gln Lys Ile Ser His Gln Asn Tyr Ile
    130                 135                 140

Ala Tyr Gln Lys Gln Val Ile Arg Arg Ser Met Arg His Arg Lys Val
145                 150                 155                 160

Arg Gly Glu Lys Ala Leu Leu Val Ser Ala Asn Gln Thr Leu Lys Glu
            165                 170                 175

Leu Lys Ile Gln Ile Met His Ala Phe Ser Val Ala Pro Phe Asp Gln
            180                 185                 190

Asn Leu Ser Ile Asp Gly Lys Ile Leu Ser Asp Asp Cys Ala Thr Leu
            195                 200                 205

Gly Thr Leu Gly Val Ile Pro Glu Ser Val Ile Leu Leu Lys Ala Asp
    210                 215                 220

Glu Pro Ile Ala Asp Tyr Ala Ala Met Asp Asp Val Met Gln Val Cys
225                 230                 235                 240

Met Pro Glu Glu Gly Phe Lys Gly Thr Gly Leu Leu Gly His
                245                 250
```

<210> 338

<211> 21
<212> PRT
<213> Homo sapiens

<400> 338
Ser Ala Pro Glu Leu Asn Val Ser Ser Ser Glu Thr Glu Glu Asp Lys
 1   5   10   15

Glu Glu Ala Lys Pro
             20

<210> 339
<211> 18
<212> PRT
<213> Homo sapiens

<400> 339
Lys Glu Leu Lys Ile Gln Ile Met His Ala Phe Ser Val Ala Pro Phe
 1   5   10   15

Asp Gln

<210> 340
<211> 58
<212> PRT
<213> Homo sapiens

<400> 340
Phe Gln Asp Lys Asn Arg Pro Cys Leu Ser Asn Trp Pro Glu Asp Thr
 1   5   10   15

Asp Val Leu Tyr Ile Val Ser Gln Phe Phe Val Glu Glu Trp Arg Lys
             20   25   30

Phe Val Arg Lys Pro Thr Arg Cys Ser Pro Val Ser Ser Val Gly Asn
             35   40   45

Ser Ala Leu Leu Cys Pro His Gly Gly Leu
             50   55

<210> 341
<211> 42
<212> PRT
<213> Homo sapiens

<400> 341
Met Phe Thr Phe Ala Ser Met Thr Lys Glu Asp Ser Lys Leu Ile Ala
 1   5   10   15

Leu Ile Trp Pro Ser Glu Trp Gln Met Ile Gln Lys Leu Phe Val Val
             20   25   30

Asp His Val Ile Lys Ile Thr Arg Ile Glu
             35   40

<210> 342
<211> 42

<212> PRT
<213> Homo sapiens

<400> 342
Val Gly Asp Val Asn Pro Ser Glu Thr Gln Tyr Ile Ser Glu Pro Lys
 1   5   10   15

Leu Cys Pro Glu Cys Arg Glu Gly Leu Leu Cys Gln Gln Gln Arg Asp
             20   25   30

Leu Arg Glu Tyr Thr Gln Ala Thr Ile Tyr
         35   40

<210> 343
<211> 42
<212> PRT
<213> Homo sapiens

<400> 343
Val His Lys Val Val Asp Asn Lys Lys Val Met Lys Asp Ser Ala Pro
 1   5   10   15

Glu Leu Asn Val Ser Ser Ser Glu Thr Glu Glu Asp Lys Glu Glu Ala
             20   25   30

Lys Pro Asp Gly Glu Lys Asp Pro Asp Phe
         35   40

<210> 344
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 344
Asn Gln Ser Xaa Gly Gly Thr Lys Arg Gln Lys Ile Ser His Gln Asn
 1   5   10   15

Tyr Ile Ala Tyr Gln Lys Gln Val Ile Arg Arg Ser Met Arg His Arg
             20   25   30

Lys Val Arg Gly Glu Lys Ala Leu Leu Val
         35   40

<210> 345
<211> 42
<212> PRT
<213> Homo sapiens

<400> 345
Ser Ala Asn Gln Thr Leu Lys Glu Leu Lys Ile Gln Ile Met His Ala
 1   5   10   15

Phe Ser Val Ala Pro Phe Asp Gln Asn Leu Ser Ile Asp Gly Lys Ile
             20   25   30

Leu Ser Asp Asp Cys Ala Thr Leu Gly Thr
        35   40

<210> 346
<211> 44
<212> PRT
<213> Homo sapiens

<400> 346
Leu Gly Val Ile Pro Glu Ser Val Ile Leu Leu Lys Ala Asp Glu Pro
 1   5   10   15

Ile Ala Asp Tyr Ala Ala Met Asp Asp Val Met Gln Val Cys Met Pro
            20   25   30

Glu Glu Gly Phe Lys Gly Thr Gly Leu Leu Gly His
            35   40

<210> 347
<211> 312
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 347
Phe Gln Asp Lys Asn Arg Pro Cys Leu Ser Asn Trp Pro Glu Asp Thr
 1   5   10   15

Asp Val Leu Tyr Ile Val Ser Gln Phe Phe Val Glu Glu Trp Arg Lys
            20   25   30

Phe Val Arg Lys Pro Thr Arg Cys Ser Pro Val Ser Ser Val Gly Asn
            35   40   45

Ser Ala Leu Leu Cys Pro His Gly Gly Leu Met Phe Thr Phe Ala Ser
    50   55   60

Met Thr Lys Glu Asp Ser Lys Leu Ile Ala Leu Ile Trp Pro Ser Glu
65   70   75   80

Trp Gln Met Ile Gln Lys Leu Phe Val Val Asp His Val Ile Lys Ile
                85   90   95

Thr Arg Ile Glu Val Gly Asp Val Asn Pro Ser Glu Thr Gln Tyr Ile
                100   105   110

Ser Glu Pro Lys Leu Cys Pro Glu Cys Arg Glu Gly Leu Leu Cys Gln
            115   120   125

Gln Gln Arg Asp Leu Arg Glu Tyr Thr Gln Ala Thr Ile Tyr Val His
    130   135   140

Lys Val Val Asp Asn Lys Lys Val Met Lys Asp Ser Ala Pro Glu Leu
145   150   155   160

Asn Val Ser Ser Ser Glu Thr Glu Glu Asp Lys Glu Glu Ala Lys Pro
                165   170   175

```
Asp Gly Glu Lys Asp Pro Asp Phe Asn Gln Ser Xaa Gly Gly Thr Lys
            180                 185             190

Arg Gln Lys Ile Ser His Gln Asn Tyr Ile Ala Tyr Gln Lys Gln Val
            195                 200             205

Ile Arg Arg Ser Met Arg His Arg Lys Val Arg Gly Glu Lys Ala Leu
    210                 215             220

Leu Val Ser Ala Asn Gln Thr Leu Lys Glu Leu Lys Ile Gln Ile Met
225                 230             235                 240

His Ala Phe Ser Val Ala Pro Phe Asp Gln Asn Leu Ser Ile Asp Gly
            245                 250             255

Lys Ile Leu Ser Asp Asp Cys Ala Thr Leu Gly Thr Leu Gly Val Ile
            260                 265             270

Pro Glu Ser Val Ile Leu Leu Lys Ala Asp Glu Pro Ile Ala Asp Tyr
            275                 280             285

Ala Ala Met Asp Asp Val Met Gln Val Cys Met Pro Glu Glu Gly Phe
    290                 295             300

Lys Gly Thr Gly Leu Leu Gly His
305                 310
```

```
<210> 348
<211> 18
<212> PRT
<213> Homo sapiens

<400> 348
Arg Gly Glu Arg Ser Glu Glu Leu Leu Gly Arg Glu Gly Leu Ser Gly
  1           5               10                  15

Ser Gln
```

```
<210> 349
<211> 179
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 349
Ala Glu Ala Ala Glu Gly Glu Lys Gly Val Arg Ser Cys Trp Ala Glu
  1           5               10                  15
```

Arg Asp Cys Pro Ala Pro Arg Cys Trp Ala Ser Trp Gly Ala Gln Pro
            20   25   30

Ser Trp Asp Gly Ser Gln Val Leu Leu Trp Arg Ser Cys Cys Cys Cys
        35   40   45

Cys Cys Trp Pro Pro Ala Phe Ser Thr Asp Gly Arg Thr Val Thr Trp
    50   55   60

Arg Gly Thr Val Gln Leu Gln Gly Glu Thr Glu Ser Ala Gly Pro Ser
65   70   75   80

Leu Gly Pro Ser Gly Gly Gly Ala Thr Trp Glu Ser Phe Thr Ile Thr
            85   90   95

Val Ile Leu Ala Thr Tyr Leu Met Cys Arg Met Trp Ala Ser Thr Thr
        100   105   110

Thr Thr Thr Pro Ala Thr Xaa Leu Thr Thr Xaa Thr Thr Thr Thr Thr
        115   120   125

Pro Thr Ala Thr Ile Pro Ala Thr Leu Ala Glu Ala Ala Val Ala Gly
    130   135   140

Ala Cys Gly Gln Gln Leu Pro Leu Pro Ser His Leu Phe Pro Gly Gln
145   150   155   160

Val Asp Pro Met Phe Pro Cys Gly Arg Met His Leu Trp Gly Glu Arg
            165   170   175

Xaa Glu Gln

<210> 350
<211> 268
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 350
Gly Gly Gln Asp Gly His Phe Thr Ser Thr Cys Val Leu Ala Leu Pro
  1   5   10   15

Arg His Ala Cys His Phe Trp Gly Ser Leu Gly Val Thr Val Thr Arg
            20   25   30

Arg Ala Val Gln Pro Arg Lys Ser Thr Leu Ala Leu His Ser Pro Asn
        35   40   45

Pro Ser Ala Leu Gln Thr Gln Cys Ser Ser Ile Leu Cys Cys His Ser
    50   55   60

Thr Leu Gly His Ala Met Gln Met Gln Leu Glu Gln Ala Pro Val Tyr
65   70   75   80

Cys Ser Xaa Arg Ser Pro Gln Arg Cys Ile Leu Pro His Gly Asn Met
            85   90   95

Gly Ser Thr Cys Pro Gly Asn Arg Trp Glu Gly Arg Gly Ser Cys Cys
            100   105   110

Pro Gln Ala Pro Ala Thr Ala Ala Ser Ala Ser Val Ala Gly Met Val
            115   120   125

Ala Val Gly Val Val Val Val Val Xaa Val Val Arg Xaa Val Ala Gly
    130   135   140

Val Val Val Val Val Glu Ala His Ile Arg His Met Arg Tyr Val Ala
145   150   155   160

Arg Met Thr Val Met Val Lys Asp Ser Gln Val Ala Pro Pro Pro Glu
            165   170   175

Gly Pro Arg Leu Gly Pro Ala Asp Ser Val Ser Pro Cys Ser Cys Thr
            180   185   190

Val Pro Leu His Val Thr Val Leu Pro Ser Val Glu Lys Ala Gly Gly
    195   200   205

Gln Gln Gln Gln Gln Gln Gln Asp Arg His Ser Ser Thr Cys Asp Pro
    210   215   220

Ser His Glu Gly Cys Ala Pro Gln Glu Ala Gln His Leu Gly Ala Gly
225   230   235   240

Gln Ser Leu Ser Ala Gln Gln Leu Leu Thr Pro Phe Ser Pro Ser Ala
            245   250   255

Ala Ser Ala Gln Pro Ser Gln Ser Leu Asn Phe Val
            260   265

<210> 351
<211> 12
<212> PRT
<213> Homo sapiens

<400> 351
Phe His Gly Leu Gly Arg Leu His Thr Val His Leu
  1   5   10

<210> 352
<211> 21
<212> PRT
<213> Homo sapiens

<400> 352
Ala Ala Phe Thr Gly Leu Ala Leu Leu Glu Gln Leu Asp Leu Ser Asp
  1   5   10   15

Asn Ala Gln Leu Arg
            20

<210> 353
<211> 9
<212> PRT
<213> Homo sapiens

<400> 353
Ala Phe Arg Gly Leu His Ser Leu Asp
 1   5

<210> 354
<211> 12
<212> PRT
<213> Homo sapiens

<400> 354
His Glu Val Pro Asp Ala Pro Arg Pro Thr Pro Thr
 1   5   10

<210> 355
<211> 101
<212> PRT
<213> Homo sapiens

<400> 355
Met Val Val Ala Asp Arg Asn Arg Ala Ser Ser Ser Ser Tyr Leu Cys
 1   5   10   15

Leu Leu Leu Phe Ser Leu Ser Leu Phe Leu Cys His Glu Thr Val Cys
            20   25   30

Asp Arg Ala Thr Cys Leu Phe Phe Phe Leu Lys Phe Phe Phe Leu Phe
            35   40   45

Met Cys Arg Cys Met Ser Trp Gly Phe Lys Asn Phe Lys Ala Gly Leu
        50   55   60

Leu Met Gln Ser Met Pro Thr Ser Gly Ile Leu Arg Glu Arg Lys Arg
 65   70   75   80

Leu His Val Val Arg Ile Pro Gln Gly Thr Glu Lys Lys Leu Glu Thr
                85   90   95

Val Glu Met Gln Ile
            100

<210> 356
<211> 12
<212> PRT
<213> Homo sapiens

<400> 356
Ile Pro Gln Gly Thr Glu Lys Lys Leu Glu Thr Val
 1   5   10

<210> 357

<211> 37
<212> PRT
<213> Homo sapiens

<400> 357
Asn Pro Arg Leu Pro Leu Pro Arg Gly Gly Ser Leu Arg Leu Leu Ser
 1   5   10   15

Ser Pro Ala Asn Ser Asn Asn Ala Lys Ala Tyr Pro Phe Ser Arg Phe
            20   25   30

Pro Ser Pro Ile Phe
            35

<210> 358
<211> 48
<212> PRT
<213> Homo sapiens

<400> 358
Met Val Gln Glu Ala Pro Ala Leu Val Arg Leu Ser Leu Gly Ser His
 1   5   10   15

Arg Val Lys Gly Pro Leu Pro Val Leu Lys Leu Gln Pro Glu Gly Trp
            20   25   30

Ser Pro Ser Thr Leu Trp Ser Cys Ala Ser Val Trp Lys Asp Ser Cys
            35   40   45

<210> 359
<211> 122
<212> PRT
<213> Homo sapiens

<400> 359
Ala Leu Ala Ser Ser Leu Val Ala Glu Asn Gln Gly Phe Val Ala Ala
 1   5   10   15

Leu Met Val Gln Glu Ala Pro Ala Leu Val Arg Leu Ser Leu Gly Ser
            20   25   30

His Arg Val Lys Gly Pro Leu Pro Val Leu Lys Leu Gln Pro Glu Gly
            35   40   45

Trp Ser Pro Ser Thr Leu Trp Ser Cys Ala Ser Val Trp Lys Asp Ser
    50   55   60

Cys Met His Pro Trp Arg Leu Ser Met Cys Pro Ala Cys Val Leu Ala
65   70   75   80

Ala Leu Pro Ala Leu Cys Ser Cys Leu Cys Ser Pro Asp Ala Arg Pro
                85   90   95

Pro His Gly Trp Met Ser Met Pro Phe Thr Pro His Pro Leu Val Ser
            100   105   110

Arg Ala Met Pro Thr Cys His Pro Cys Ser
            115   120

<210> 360
<211> 33
<212> PRT
<213> Homo sapiens

<400> 360
Phe Tyr Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn
 1   5   10   15

Val Phe Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln
            20   25   30

Phe

<210> 361
<211> 15
<212> PRT
<213> Homo sapiens

<400> 361
Ser Ile Phe Thr Val Tyr Glu Ala Ala Ser Gln Glu Gly Trp Val
 1   5   10   15

<210> 362
<211> 21
<212> PRT
<213> Homo sapiens

<400> 362
His Glu Gly Thr Ser Ile Phe Thr Val Tyr Glu Ala Ala Ser Gln Glu
 1   5   10   15

Gly Trp Val Phe Leu
            20

<210> 363
<211> 8
<212> PRT
<213> Homo sapiens

<400> 363
Cys Lys Thr Ser Phe Gly Leu Ala
 1   5

<210> 364
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 364

```
Met Ile Thr Leu Ser Ser Ala Phe Ser Ala Lys Gln Lys Thr His Ala
 1               5                  10                  15

His Lys Asn Thr His Ala Cys Met Cys Ala Thr Asp Met Ala Asn Pro
            20                  25                  30

Lys Leu Val Leu His Phe Glu Val Ile Val Ala Leu Leu Ser Leu Leu
        35                  40                  45

Gln Thr Ile Leu Ser Leu Leu Leu Gly Gln Arg Thr Trp Leu Ala His
    50                  55                  60

Leu Tyr Val Leu Ser Thr Glu Asn Xaa Ala Leu His Thr Val Gly Thr
65                  70                  75                  80

Gln Lys His Leu Leu Pro His Asp Trp Cys Phe Gly Lys His Cys Val
                85                  90                  95

Ser Cys Arg His His Ile Phe His Arg Phe Cys Ser Ile Phe Ser Ser
            100                 105                 110

Thr Leu Lys Arg Ser Gln Gly Phe Glu Gly
            115                 120
```

<210> 365
<211> 13
<212> PRT
<213> Homo sapiens

<400> 365
```
Cys Ala Ala Pro Gly Asn Lys Thr Ser His Leu Ala Ala
 1               5                  10
```

<210> 366
<211> 24
<212> PRT
<213> Homo sapiens

<400> 366
```
Glu His Pro Leu Tyr Arg Ala Gly His Leu Ile Leu Gln Asp Arg Ala
 1               5                  10                  15

Ser Cys Leu Pro Ala Met Leu Leu
            20
```

<210> 367
<211> 15
<212> PRT
<213> Homo sapiens

<400> 367
```
Leu Leu Asp Pro Ser Cys Ser Gly Ser Gly Met Pro Ser Arg Gln
 1               5                  10                  15
```

<210> 368
<211> 23
<212> PRT
<213> Homo sapiens

<400> 368
Tyr Ser Thr Cys Ser Leu Cys Gln Glu Glu Asn Glu Asp Val Val Arg
 1   5   10   15

Asp Ala Leu Gln Gln Asn Pro
                20

<210> 369
<211> 470
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (277)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (296)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (301)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (306)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (324)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (431)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 369
Ser Ala Thr Glu His Gly Ala Val Cys Cys Ser Cys Arg Arg Val Gly
 1   5   10   15

Arg Arg Gly Glu Pro Pro Gly Ser Ile Lys Gly Leu Val Tyr Ser Ser
                20   25   30

Asn Phe Gln Asn Val Lys Gln Leu Tyr Ala Leu Val Cys Glu Thr Gln
            35   40   45

Arg Tyr Ser Ala Val Leu Asp Ala Val Ile Ala Ser Ala Gly Leu Leu
        50   55   60

Arg Ala Glu Lys Lys Leu Arg Pro His Leu Ala Lys Val Leu Val Tyr
 65   70   75   80

Glu Leu Leu Leu Gly Lys Gly Phe Arg Gly Gly Gly Arg Trp Lys
                85   90   95

Ala Leu Leu Gly Arg His Gln Ala Arg Leu Lys Ala Glu Leu Ala Arg
                100   105   110

Leu Lys Val His Arg Gly Val Ser Arg Asn Glu Asp Leu Leu Glu Val
        115   120   125

Gly Ser Arg Pro Gly Pro Ala Ser Gln Leu Pro Arg Phe Val Arg Val
        130   135   140

Asn Thr Leu Lys Thr Cys Ser Asp Asp Val Val Asp Tyr Phe Lys Arg
145   150   155   160

Gln Gly Phe Ser Tyr Gln Gly Arg Ala Ser Ser Leu Asp Asp Leu Arg
                165   170   175

Ala Leu Lys Gly Lys His Phe Leu Leu Asp Pro Leu Met Pro Glu Leu
            180   185   190

Leu Val Phe Pro Ala Gln Thr Asp Leu His Glu His Pro Leu Tyr Arg
        195   200   205

Ala Gly His Leu Ile Leu Gln Asp Arg Ala Ser Cys Leu Pro Ala Met
    210   215   220

Leu Leu Asp Pro Pro Pro Gly Ser His Val Ile Asp Ala Cys Ala Ala
225   230   235   240

Pro Gly Asn Lys Thr Ser His Leu Ala Ala Leu Leu Lys Asn Gln Gly
            245   250   255

Lys Ile Phe Ala Phe Asp Leu Asp Ala Lys Arg Leu Ala Ser Met Ala
            260   265   270

Thr Leu Leu Ala Xaa Ala Gly Val Ser Cys Cys Glu Leu Ala Glu Glu
        275   280   285

Asp Phe Leu Ala Val Ser Pro Xaa Asp Pro Arg Tyr Xaa Glu Val His
    290   295   300

Tyr Xaa Leu Leu Asp Pro Ser Cys Ser Gly Ser Gly Met Pro Ser Arg
305   310   315   320

Gln Leu Glu Xaa Pro Gly Ala Gly Thr Pro Ser Pro Val Arg Leu His
            325   330   335

Ala Leu Ala Gly Phe Gln Gln Arg Ala Leu Cys His Ala Leu Thr Phe
            340   345   350

Pro Ser Leu Gln Arg Leu Val Tyr Ser Thr Cys Ser Leu Cys Gln Glu
        355   360   365

Glu Asn Glu Asp Val Val Arg Asp Ala Leu Gln Gln Asn Pro Gly Ala
    370   375   380

Phe Arg Leu Ala Pro Ala Leu Pro Ala Trp Pro His Arg Gly Leu Ser
385   390   395   400

Thr Phe Pro Gly Ala Glu His Cys Leu Arg Ala Ser Pro Glu Thr Thr
            405   410   415

Leu Ser Ser Gly Phe Phe Val Ala Val Ile Glu Arg Val Glu Xaa Pro
            420   425   430

Ser Ser Ala Ser Gln Ala Lys Ala Ser Ala Pro Glu Arg Thr Pro Ser
        435   440   445

Pro Ala Pro Lys Arg Lys Lys Arg Gln Gln Arg Ala Ala Ala Gly Ala
    450   455   460

```
Cys Thr Pro Pro Cys Thr
465                 470
```

```
<210> 370
<211> 429
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (236)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (255)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (260)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (265)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (418)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 370
Tyr Glu Pro His Ser Thr His Ser Arg Glu Arg Ala Met Thr Ser His
  1           5                 10                    15

Ala Arg Val Ser Leu Gly Pro Ser Arg Asp Pro Leu Glu Arg Pro His
            20              25                  30

Leu Ala Lys Val Leu Val Tyr Glu Leu Leu Leu Gly Lys Gly Phe Arg
            35              40              45

Gly Gly Gly Gly Arg Trp Lys Ala Leu Leu Gly Arg His Gln Ala Arg
        50              55              60

Leu Lys Ala Glu Leu Ala Arg Leu Lys Val His Arg Gly Val Ser Arg
 65              70              75                      80

Asn Glu Asp Leu Leu Glu Val Gly Ser Arg Pro Gly Pro Ala Ser Gln
                85              90                      95

Leu Pro Arg Phe Val Arg Val Asn Thr Leu Lys Thr Cys Ser Asp Asp
            100             105             110

Val Val Asp Tyr Phe Lys Arg Gln Gly Phe Ser Tyr Gln Gly Arg Ala
            115             120             125

Ser Ser Leu Asp Asp Leu Arg Ala Leu Lys Gly Lys His Phe Leu Leu
        130             135             140

Asp Pro Leu Met Pro Glu Leu Leu Val Phe Pro Ala Gln Thr Asp Leu
145             150             155             160
```

His Glu His Pro Leu Tyr Arg Ala Gly His Leu Ile Leu Gln Asp Arg
            165   170   175

Ala Ser Cys Leu Pro Ala Met Leu Leu Asp Pro Pro Pro Gly Ser His
            180   185   190

Val Ile Asp Ala Cys Ala Ala Pro Gly Asn Lys Thr Ser His Leu Ala
            195   200   205

Ala Leu Leu Lys Asn Gln Gly Lys Ile Phe Ala Phe Asp Leu Asp Ala
    210   215   220

Lys Arg Leu Ala Ser Met Ala Thr Leu Leu Ala Xaa Ala Gly Val Ser
225   230   235   240

Cys Cys Glu Leu Ala Glu Glu Asp Phe Leu Ala Val Ser Pro Xaa Asp
            245   250   255

Pro Arg Tyr Xaa Glu Val His Tyr Xaa Leu Leu Asp Pro Ser Cys Ser
            260   265   270

Gly Ser Gly Met Pro Ser Arg Gln Leu Glu Glu Pro Gly Ala Gly Thr
            275   280   285

Pro Ser Pro Val Arg Leu His Ala Leu Ala Gly Phe Gln Gln Arg Ala
    290   295   300

Leu Cys His Ala Leu Thr Phe Pro Ser Leu Gln Arg Leu Val Tyr Ser
305   310   315   320

Thr Cys Ser Leu Cys Gln Glu Glu Asn Glu Asp Val Val Arg Asp Ala
            325   330   335

Leu Gln Gln Asn Pro Gly Ala Phe Arg Leu Ala Pro Ala Leu Pro Ala
            340   345   350

Trp Pro His Arg Gly Leu Ser Thr Phe Pro Gly Ala Glu His Cys Leu
            355   360   365

Arg Ala Ser Pro Glu Thr Thr Leu Ser Ser Gly Phe Phe Val Ala Val
    370   375   380

Ile Glu Arg Val Glu Val Pro Ser Ser Ala Ser Gln Ala Lys Ala Ser
385   390   395   400

Ala Pro Glu Arg Thr Pro Ser Pro Ala Pro Lys Arg Lys Lys Arg Gln
            405   410   415

Gln Xaa Ala Ala Ala Gly Ala Cys Thr Pro Pro Cys Thr
            420   425

<210> 371
<211> 245
<212> PRT
<213> Homo sapiens

<400> 371
Met Gly Thr His Ser Val Ser Gly Arg Phe Ser Lys Thr Ser Pro Pro
  1   5   10   15

Tyr Cys Pro Pro Ser Ser Ser Leu Pro Gly Pro Ile Ser Ser Ile Gly
        20   25   30

```
Phe Asn Lys Ser Leu His Glu Cys Leu Phe Ile Ser Glu Lys Glu Leu
        35                  40                  45

Leu Pro Leu Pro Phe Pro Phe Pro Asp Leu Lys Ser Phe Ile Ser Tyr
        50              55                  60

Leu Thr Ser Met Leu Lys Pro Gly Pro Leu Ile Val Ser Leu Lys Ile
65                  70              75                      80

Trp Val Ser Tyr Pro Ile Thr Arg Pro Arg Tyr Leu Pro Pro Met Leu
                85                  90                  95

Lys Ser Leu Asn Ile Ser Phe Leu Tyr Ile Gln Tyr Ile Trp Ala Tyr
                100             105             110

Ile His Leu Tyr Thr Ser Phe Tyr Ile Tyr Ile Ile Ser Val Ser Phe
            115             120             125

Phe Leu Asp Lys Pro Phe Ile Tyr Val Ile Ser Phe Pro Lys Pro Pro
        130             135             140

His Phe Leu Phe Ala Ser Leu Ser Lys Thr Gln Glu Phe His Phe His
145             150             155             160

Val Pro Gln His His Phe Phe Leu Ile Phe Ser Pro Gln Val Ser Ser
                165             170             175

Pro Ile Ser Cys Phe Ala Arg Leu Leu Lys Ser Pro Leu Phe Thr Pro
            180             185             190

Val Pro Thr Glu Ile Ser Pro Phe Tyr Asn Cys Ala Tyr Tyr Ser Ala
            195             200             205

Asp Ile Pro Ser Pro Gln Leu Val Trp Gly Pro Ile Ser His Gln Thr
    210             215             220

Trp Leu Leu Leu Lys Leu Gly Leu Leu Pro Lys Arg Gly Phe Gln Val
225             230             235             240

Arg Gly Asp Arg Leu
                245
```

```
<210> 372
<211> 29
<212> PRT
<213> Homo sapiens

<400> 372
Cys Phe Ala Arg Leu Leu Lys Ser Pro Leu Phe Thr Pro Val Pro Thr
  1           5               10                  15

Glu Ile Ser Pro Phe Tyr Asn Cys Ala Tyr Tyr Ser Ala
            20              25


<210> 373
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 373
Asn Arg Glu Gln Lys Ala Lys Ser Gln Leu Leu Arg Ser Gln Leu Tyr
  1   5   10   15

Ser Thr Leu Asp Leu Pro Tyr Phe Phe Gln Cys Val Gly Thr Arg Cys
           20   25   30

Thr Ala Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Xaa Tyr
           35   40   45

Leu Pro Ile His Trp Gln Val Asn Leu His Leu Val Tyr Leu Ala Met
      50   55   60

Leu Cys Phe Leu Pro Ile Pro Leu Leu Ser Ile Leu Ser Pro Gln Thr
 65   70   75   80

Gln Ala Ser Arg Leu Leu Asp Glu Thr Val Arg Arg Lys His Phe Leu
              85   90   95

Thr Tyr Pro Phe Gly Ile Ser Ser Ile Ile Thr Gln Ala Leu Leu
           100   105   110

<210> 374
<211> 51
<212> PRT
<213> Homo sapiens

<400> 374
Pro Gly Pro Glu Ala Gln Pro Trp Pro Gly Pro Asp Leu Pro Ala Val
  1   5   10   15

Gly Ser Arg Gly Pro Gly Arg Leu Leu Ala Ala Val Ser Ala Pro Arg
           20   25   30

Leu Gly Leu Gly Leu Ala Gly Ala Asp Pro Val Gly Pro Glu Ala Cys
           35   40   45

His Leu Pro
      50

<210> 375
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 375
Gly Arg Leu Arg Gly Pro Asp Glu Val Gly Ala Pro Phe His Pro Gly
  1   5   10   15

Pro Ala Thr Pro Gly Leu Ala Asp Pro Leu Arg Pro Ala Glu Pro Xaa
           20   25   30

His Trp Leu Pro Ser Leu Trp Gly Pro Thr
      35   40

<210> 376
<211> 19
<212> PRT
<213> Homo sapiens

<400> 376
Pro Gly Pro Glu Ala Gln Pro Trp Pro Gly Pro Asp Leu Pro Ala Val
  1   5   10   15

Gly Ser Arg

<210> 377
<211> 19
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 377
Ala Thr Pro Gly Leu Ala Asp Pro Leu Arg Pro Ala Glu Pro Xaa His
  1   5   10   15

Trp Leu Pro

<210> 378
<211> 251
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (241)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 378
Gln Trp Pro Glu Lys Asp Pro Val Met Ala Ala Ser Ser Ile Ser Ser
  1   5   10   15

Pro Trp Gly Lys His Val Phe Lys Ala Ile Leu Met Val Leu Val Ala
             20   25   30

Leu Ile Leu Leu His Ser Ala Leu Ala Gln Ser Arg Arg Asp Phe Ala
          35   40   45

Pro Pro Gly Gln Gln Lys Arg Glu Ala Pro Val Asp Val Leu Thr Gln
       50   55   60

Ile Gly Arg Ser Val Arg Gly Thr Leu Asp Ala Trp Ile Gly Pro Glu
  65   70   75   80

```
Thr Met His Leu Val Ser Glu Ser Ser Ser Gln Val Leu Trp Ala Ile
                85              90                      95

Ser Ser Ala Ile Ser Val Ala Phe Phe Ala Leu Ser Gly Ile Ala Ala
            100             105             110

Gln Leu Leu Asn Ala Leu Gly Leu Ala Gly Asp Tyr Leu Ala Gln Gly
        115             120             125

Leu Lys Leu Ser Pro Gly Gln Val Gln Thr Phe Leu Leu Trp Gly Ala
    130             135             140

Gly Ala Leu Val Val Tyr Trp Leu Leu Ser Leu Leu Leu Gly Leu Val
145             150             155             160

Leu Ala Leu Leu Gly Arg Ile Leu Trp Gly Leu Lys Leu Val Ile Phe
            165             170             175

Leu Ala Gly Phe Val Ala Leu Met Arg Ser Val Pro Asp Pro Ser Thr
            180             185             190

Arg Ala Leu Leu Leu Leu Ala Leu Leu Ile Leu Tyr Ala Leu Leu Ser
        195             200             205

Arg Xaa Thr Gly Ser Arg Ala Ser Gly Ala Gln Leu Glu Ala Lys Val
    210             215             220

Arg Gly Leu Glu Arg Gln Val Glu Glu Leu Arg Trp Arg Gln Arg Gln
225             230             235             240

Xaa Ala Lys Gly Ala Arg Ser Val Glu Glu Glu
            245             250
```

```
<210> 379
<211> 116
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 379
```

```
Glu Xaa Pro Arg Xaa Ile Xaa Gly Xaa Asn Ala Pro Gln Val Pro Val
  1           5               10                      15

Arg Asn Ser Arg Val Asp Pro Arg Val Arg Pro Arg Val Arg Ser Leu
        20              25              30
```

```
Val Phe Val Leu Phe Cys Asp Glu Val Arg Gln Trp Tyr Val Asn Gly
        35              40              45
```

```
Val Asn Tyr Phe Thr Asp Leu Trp Asn Val Met Asp Thr Leu Gly Leu
    50              55              60
```

```
Phe Tyr Phe Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys
65              70              75              80
```

```
Ser Ser Leu Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile
            85              90              95
```

```
Phe Thr Leu Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly
            100             105             110
```

```
Pro Lys Ile Ile
        115
```

```
<210> 380
<211> 12
<212> PRT
<213> Homo sapiens
```

```
<400> 380
Asn Ile Leu Leu Val Asn Leu Leu Val Ala Met Phe
 1               5               10
```

```
<210> 381
<211> 10
<212> PRT
<213> Homo sapiens
```

```
<400> 381
Gln Val Trp Lys Phe Gln Arg Tyr Phe Leu
 1               5               10
```

```
<210> 382
<211> 316
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (9)
```

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (296)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (306)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 382
Glu Xaa Pro Arg Xaa Ile Xaa Gly Xaa Asn Ala Pro Gln Val Pro Val
 1   5   10   15

Arg Asn Ser Arg Val Asp Pro Arg Val Arg Pro Arg Val Arg Ser Leu
            20   25   30

Val Phe Val Leu Phe Cys Asp Glu Val Arg Gln Trp Tyr Val Asn Gly
            35   40   45

Val Asn Tyr Phe Thr Asp Leu Trp Asn Val Met Asp Thr Leu Gly Leu
        50   55   60

Phe Tyr Phe Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys
 65   70   75   80

Ser Ser Leu Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile
                85   90   95

Phe Thr Leu Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly
            100   105   110

Pro Lys Ile Ile Met Leu Gln Arg Met Leu Ile Asp Val Xaa Xaa Phe
            115   120   125

Leu Phe Leu Phe Ala Val Trp Met Val Ala Phe Gly Val Ala Xaa Gln
    130   135   140

Gly Ile Leu Arg Gln Asn Glu Gln Arg Trp Arg Trp Ile Phe Arg Ser
145   150   155   160

Val Ile Tyr Glu Pro Xaa Leu Ala Met Phe Gly Gln Val Pro Ser Xaa
                165   170   175

Val Asp Gly Thr Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn
            180   185   190

Glu Ser Lys Pro Leu Cys Val Xaa Leu Asp Glu His Asn Leu Pro Arg
            195   200   205

Phe Pro Glu Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser
    210   215   220

Thr Asn Ile Leu Leu Val Asn Leu Leu Val Ala Met Phe Gly Tyr Thr
225   230   235   240

Val Gly Thr Val Gln Glu Asn Asn Asp Gln Val Trp Lys Phe Gln Arg
                245   250   255

Tyr Phe Leu Val Gln Glu Tyr Cys Ser Arg Leu Asn Ile Pro Phe Pro
                260   265   270

Phe Ile Val Phe Ala Tyr Phe Tyr Met Val Val Lys Lys Cys Phe Lys
            275   280   285

Cys Cys Cys Lys Glu Xaa Asn Xaa Glu Ser Ser Val Cys Cys Ser Lys
    290   295   300

Met Xaa Thr Met Arg Leu Trp His Gly Arg Val Ser
305   310   315

<210> 383
<211> 129
<212> PRT
<213> Homo sapiens

<400> 383
Met Glu Phe Gln Asn Met Tyr Ile Gln Leu Phe Gly Phe Ser Phe Phe
  1   5   10   15

Ile Val Ile Ile Val Arg Met Leu Leu Leu Gly Leu Cys Val Ser Ala
            20   25   30

Arg Gln Pro Val Met Pro Arg Ala Thr Leu Trp Gly His Leu Ser Pro
        35   40   45

Ala Trp Val Leu Val Pro Trp Thr Pro Arg Ala Cys Gly Gln Ala Ala
    50   55   60

Pro Gly Arg Gly His Val Ala Ser Asp His Lys Ser Gly Leu Pro Trp
    65   70   75   80

Pro Lys His Cys Ser Cys Leu His Pro Arg Ala Ser Gln Pro Cys Leu

```
                    85                    90                    95

Phe Ser Leu Asn Ser Asn Arg Thr Val Phe Thr Ala Ile Gln Arg Val
            100                    105                    110

Ala Leu Gly Trp Thr Phe Trp Val Gln Ala Asn Leu Val Pro Arg Cys
            115                    120                    125

Thr
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<210> 384
<211> 417
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (205)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (223)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (322)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (348)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (402)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 384
```
Leu Leu Leu Cys Val Thr Gly Val Tyr Ser Tyr Gly Leu Met His Pro
  1           5                  10                  15

Ile Pro Ser Ser Phe Met Ile Lys Ala Val Ser Ser Phe Leu Thr Ala
            20                  25                  30

Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe Met Lys Val Leu
            35                  40                  45

Gln Ala Arg Lys Asn Xaa Thr Ser Thr Glu Leu Ile Val Glu Pro Glu
        50                  55                  60

Glu Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly Phe Gly Ser Glu
 65                  70                  75                  80

Gln Leu Asp Thr Asn Asp Glu Ser Asp Xaa Ile Ser Thr Leu Ser Tyr
                85                  90                  95

Ile Leu Pro Tyr Phe Ser Ala Val Asn Leu Asp Val Xaa Ser Xaa Leu
            100                 105                 110

Leu Pro Phe Ile Lys Leu Pro Thr Xaa Gly Asn Ser Leu Ala Lys Ile
            115                 120                 125

Gln Thr Val Gly Gln Asn Xaa Gln Xaa Val Xaa Arg Val Leu Met Gly
        130                 135                 140

Pro Arg Ser Ile Gln Lys Arg His Phe Lys Glu Val Gly Arg Gln Ser
145                 150                 155                 160

Ile Arg Arg Glu Gln Gly Ala Gln Ala Ser Val Glu Asn Ala Ala Glu
                165                 170                 175
```

```
Glu Lys Arg Leu Gly Ser Pro Ala Pro Arg Glu Xaa Glu Gln Pro His
            180                 185             190

Thr Gln Gln Gly Pro Glu Lys Leu Ala Gly Asn Ala Xaa Tyr Thr Lys
        195             200             205

Pro Ser Phe Thr Gln Glu His Lys Ala Ala Val Ser Val Leu Xaa Pro
    210             215             220

Phe Ser Lys Gly Ala Pro Ser Thr Ser Ser Pro Ala Lys Ala Leu Pro
225             230             235             240

Gln Val Arg Asp Arg Trp Lys Asp Xaa Thr His Xaa Ile Ser Ile Leu
            245             250             255

Glu Ser Ala Lys Ala Arg Val Thr Asn Met Lys Ala Ser Lys Pro Ile
            260             265             270

Ser His Ser Arg Lys Lys Tyr Arg Phe His Lys Thr Arg Ser Arg Met
            275             280             285

Thr His Arg Thr Pro Lys Val Lys Lys Ser Pro Lys Phe Arg Lys Lys
        290             295             300

Ser Tyr Leu Ser Arg Leu Met Leu Ala Asn Arg Pro Pro Phe Ser Ala
305             310             315             320

Ala Xaa Ser Leu Ile Asn Ser Pro Ser Gln Gly Ala Phe Ser Ser Leu
            325             330             335

Gly Asp Leu Ser Pro Gln Glu Asn Pro Phe Leu Xaa Val Ser Ala Pro
            340             345             350

Ser Glu His Phe Ile Glu Thr Thr Asn Ile Lys Asp Thr Thr Ala Arg
        355             360             365

Asn Ala Leu Glu Glu Asn Val Phe Met Glu Asn Thr Asn Met Pro Glu
    370             375             380

Val Thr Ile Ser Glu Asn Thr Asn Tyr Asn His Pro Pro Glu Ala Asp
385             390             395             400

Ser Xaa Gly Thr Ala Phe Asn Leu Gly Pro Thr Val Lys Gln Thr Glu
            405             410             415

Thr
```

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<210> 385
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 385
Cys Phe Ser Asn Ala Pro Lys Val Ser Asp Glu Ala Val Lys Lys Asp
  1               5               10              15

Ser Glu Leu Asp Lys His Leu Glu Ser Arg Val Glu Glu Ile Met Glu
        20              25              30
```

```
Lys Ser Gly Glu Glu Gly Met Pro Asp Leu Ala His Val Met Arg Ile
        35              40                  45

Leu Ser Ala Glu Asn Ile Pro Asn Leu Pro Pro Gly Gly Gly Leu Ala
    50              55                  60

Gly Xaa Arg Asn Val Ile Glu Ala Val Tyr Ser Arg Leu Asn Pro His
65                  70                  75                  80

Arg Glu Ser Asp Gly Gly Ala Gly Asp Leu Glu Asp Pro Trp
                85                  90
```

```
<210> 386
<211> 56
<212> PRT
<213> Homo sapiens

<400> 386
Cys Phe Ser Asn Ala Pro Lys Val Ser Asp Glu Ala Val Lys Lys Asp
1               5                   10                  15

Ser Glu Leu Asp Lys His Leu Glu Ser Arg Val Glu Glu Ile Met Glu
            20                  25                  30

Lys Ser Gly Glu Glu Gly Met Pro Asp Leu Ala His Val Met Arg Ile
        35              40                  45

Leu Ser Ala Glu Asn Ile Pro Asn
    50              55
```

```
<210> 387
<211> 26
<212> PRT
<213> Homo sapiens

<400> 387
Arg Asn Val Ile Glu Ala Val Tyr Ser Arg Leu Asn Pro His Arg Glu
1               5                   10                  15

Ser Asp Gly Gly Ala Gly Asp Leu Glu Asp
            20                  25
```

```
<210> 388
<211> 16
<212> PRT
<213> Homo sapiens

<400> 388
Asp Ser Glu Leu Asp Lys His Leu Glu Ser Arg Val Glu Glu Ile Met
  1             5                   10                  15
```

```
<210> 389
<211> 24
<212> PRT
```

<213> Homo sapiens

<400> 389
Lys Ser Gly Glu Glu Gly Met Pro Asp Leu Ala His Val Met Arg Ile
 1   5   10   15

Leu Ser Ala Glu Asn Ile Pro Asn
            20

<210> 390
<211> 9
<212> PRT
<213> Homo sapiens

<400> 390
Cys Phe Ser Asn Ala Pro Lys Val Ser
 1   5

<210> 391
<211> 69
<212> PRT
<213> Homo sapiens

<400> 391
Met Ser Arg Lys Ser Leu Ala Phe Pro Ile Ile Cys Ser Tyr Leu Cys
 1   5   10   15

Phe Leu Thr Val Ala Thr Cys Ser Ile Ala Cys Thr Thr Val Phe Phe
            20   25   30

Ala Asn Leu Arg His Thr Arg Tyr Ile Cys Ile Glu Leu Ser Ala Leu
            35   40   45

Glu Thr Ser Gly Val Ile Ser Pro Gln Ile Asn Asn Val Pro Glu Val
       50   55   60

His Gly Lys Tyr Ser
 65

<210> 392
<211> 16
<212> PRT
<213> Homo sapiens

<400> 392
Ile Gln Lys Met Thr Arg Val Arg Val Val Asp Asn Ser Ala Leu Gly
 1   5   10   15

<210> 393
<211> 14
<212> PRT
<213> Homo sapiens

<400> 393
Pro Arg Cys Ile His Val Tyr Lys Lys Asn Gly Val Gly Lys

1   5   10

<210> 394
<211> 15
<212> PRT
<213> Homo sapiens

<400> 394
Gly Asp Gln Ile Leu Leu Ala Ile Lys Gly Gln Lys Lys Lys Ala
 1   5   10   15

<210> 395
<211> 15
<212> PRT
<213> Homo sapiens

<400> 395
Asn Pro Val Gly Thr Arg Ile Lys Thr Pro Ile Pro Thr Ser Leu
 1   5   10   15

<210> 396
<211> 171
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 396
Val Leu Ile Pro Ser Phe Ser Ser Ser Phe Leu Cys Ser Arg Gly Gly
 1   5   10   15

Pro Leu Pro Xaa Asp Leu Ser Trp Asp Pro Met Ala Phe Phe Thr Gly
                20   25   30

Leu Trp Gly Pro Phe Thr Cys Val Ser Arg Val Leu Ser His His Cys
            35   40   45

Phe Ser Thr Thr Gly Ser Leu Ser Ala Ile Gln Lys Met Thr Arg Val
        50   55   60

Arg Val Val Asp Asn Ser Ala Leu Gly Asn Ser Pro Tyr His Arg Ala
 65   70   75   80

Pro Arg Cys Ile His Val Tyr Lys Lys Asn Gly Val Gly Lys Val Gly
                85   90   95

Asp Gln Ile Leu Leu Ala Ile Lys Gly Gln Lys Lys Lys Ala Leu Ile
                100   105   110

Val Gly His Cys Met Pro Gly Pro Arg Met Thr Pro Arg Phe Asp Ser
                115   120   125

Asn Asn Val Val Leu Ile Glu Asp Asn Gly Asn Pro Val Gly Thr Arg
        130   135   140

Ile Lys Thr Pro Ile Pro Thr Ser Leu Arg Lys Arg Glu Gly Glu Tyr
145   150   155   160

Ser Lys Val Leu Ala Ile Ala Gln Asn Phe Val
165   170

<210> 397
<211> 171
<212> PRT
<213> Homo sapiens

<400> 397
Ala Arg Val Val Gln Pro Ala Ala Arg Ala Gly Met Trp Ala Gly Gly
 1   5   10   15

Arg Ser Ser Cys Gln Ala Glu Val Leu Arg Ala Thr Arg Gly Gly Ala
            20   25   30

Ala Arg Gly Asn Ala Ala Pro Gly Arg Ala Leu Glu Met Val Pro Gly
        35   40   45

Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro Ala Cys Val Ala
    50   55   60

Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe Gln Val Leu Ser
65   70   75   80

Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro Ala Lys Asp Phe
                85   90   95

Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His Leu Val Pro Ala
            100   105   110

Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly Phe Phe Ile Gln
        115   120   125

Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser Phe Leu Ser Lys
    130   135   140

Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val Ile Ile Ser Asp
145   150   155   160

Asn Ala Leu Thr Met Thr Ala Ser Thr Trp Arg
                165   170

<210> 398
<211> 188
<212> PRT
<213> Homo sapiens

<400> 398
Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
 1   5   10   15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
            20   25   30

Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
        35   40   45

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
    50   55   60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly

```
65                      70                      75                      80
Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
                85                      90                      95
Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
            100                     105                     110
Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met
        115                     120                     125
Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu
    130                     135                     140
Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly
145                     150                     155                     160
Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro
                165                     170                     175
Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp
            180                     185
```

```
<210> 399
<211> 70
<212> PRT
<213> Homo sapiens

<400> 399
Val Asp Asn Asp Ser Phe Tyr Val Glu Met Ile Gln Asp Ser Thr Gln
  1               5                  10                  15
Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu Leu Gly Arg Asp Gly Tyr
            20                  25                  30
Met Ile Arg Arg Ser Leu Glu Gln His Gly Leu Pro Trp Ala Ile Ile
        35                  40                  45
Ser Ile Pro Val Asn Val Thr Ser Ile Pro Thr Phe Glu Leu Leu Gln
    50                  55                  60
Pro Pro Trp Thr Phe Trp
 65                  70
```

```
<210> 400
<211> 187
<212> PRT
<213> Homo sapiens

<400> 400
Ile Ala Thr Ala Ala Leu Phe Phe Phe Phe Tyr Cys Gln Val Ala Gly
  1               5                  10                  15
Phe Ile Gly Lys Gly Gln Ser Leu Arg Ser Trp Val Pro Gln Arg Leu
            20                  25                  30
Leu Gly Leu Glu Pro Gln Leu Gln Pro Met Gln Gln Ser Arg Leu Leu
        35                  40                  45
Leu Pro Phe Leu Phe Phe Leu Leu Glu Gly Cys Ala Pro Ser Ser Leu
    50                  55                  60
```

```
Gly Pro Gly Ala Ala Pro Gly Ser Gly His Ser Leu Gly Pro Pro Gly
65              70              75                      80

Ser Pro Gly Ala Pro Gly Pro Gln Pro Ala Val Gly Pro Ser Ser Pro
                85              90              95

Cys Gln Pro Gly Pro Ser Pro Ser Ser Pro Ala Ala Ala Ala Ala Ser
            100             105             110

Ser Gln Ser Ser Val Ala Ser Trp Pro Cys Thr Leu Arg Cys Ala Ala
        115             120             125

Pro Ser Pro Asp Ala Ser Ala Leu Arg Pro Ala Ala Ser Pro Ala Ala
    130             135             140

Thr Pro Ala Trp Ser Pro Gly Ser Gly Thr Ile Arg Val Leu Arg Pro
145             150             155             160

Pro Ala Pro Ala Ala Ala Pro Ala Thr Ala Ile Thr Asn Arg Gly Pro
                165             170             175

Pro Arg Arg Arg Arg Arg Asn Ala Arg Thr Ala
            180             185
```

```
<210> 401
<211> 194
<212> PRT
<213> Homo sapiens

<400> 401
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```
Glu Arg Pro Pro Pro Arg Arg Thr Gly Thr Pro Val Ala Arg Pro Arg
  1             5               10                      15

Gly Pro Pro Asp Pro Ala Val Ala Ala Gly Thr Ala Leu Arg Ala Lys
            20              25              30

Gln Phe Ala Arg Tyr Gly Ala Ala Ser Gly Val Val Pro Gly Ser Leu
        35              40              45

Trp Pro Ser Pro Glu Gln Leu Arg Glu Leu Glu Ala Glu Glu Arg Glu
    50              55              60

Trp Tyr Pro Ser Leu Ala Thr Met Gln Glu Ser Leu Arg Val Lys Gln
65              70              75                      80

Leu Ala Glu Glu Gln Lys Arg Arg Glu Arg Glu Gln His Ile Ala Glu
            85              90                      95

Cys Met Ala Lys Met Pro Gln Met Ile Val Asn Trp Gln Gln Gln Gln
            100             105             110

Arg Glu Asn Trp Glu Lys Ala Gln Ala Asp Lys Glu Arg Arg Ala Arg
        115             120             125

Leu Gln Ala Glu Ala Gln Glu Leu Leu Gly Tyr Gln Val Asp Pro Arg
    130             135             140

Ser Ala Arg Phe Gln Glu Leu Leu Gln Asp Leu Glu Lys Lys Glu Arg
145             150             155             160

Asn Pro Gln Gly Gly Lys Thr Glu Thr Glu Glu Gly Gly Ala Thr Ala
            165             170             175

Ala Leu Ala Ala Ala Val Ala Gln Asp Pro Ala Ala Ser Gly Ala Pro
```

Ser Ser

<210> 402
<211> 124
<212> PRT
<213> Homo sapiens

<400> 402
Met Gln Glu Ser Leu Arg Val Lys Gln Leu Ala Glu Glu Gln Lys Arg
 1   5   10   15

Arg Glu Arg Glu Gln His Ile Ala Glu Cys Met Ala Lys Met Pro Gln
                20   25   30

Met Ile Val Asn Trp Gln Gln Gln Gln Arg Glu Asn Trp Glu Lys Ala
            35   40   45

Gln Ala Asp Lys Glu Arg Arg Ala Arg Leu Gln Ala Glu Ala Gln Glu
        50   55   60

Leu Leu Gly Tyr Gln Val Asp Pro Arg Ser Ala Arg Phe Gln Glu Leu
65   70   75   80

Leu Gln Asp Leu Glu Lys Lys Glu Arg Lys Arg Leu Lys Glu Glu Lys
                85   90   95

Gln Lys Arg Lys Lys Glu Ala Arg Ala Ala Ala Leu Ala Ala Ala Val
            100   105   110

Ala Gln Asp Pro Ala Ala Ser Gly Ala Pro Ser Ser
        115   120

<210> 403
<211> 113
<212> PRT
<213> Homo sapiens

<400> 403
Tyr Gln Ser Leu Ala Glu Thr Gln Gln Lys Lys Glu Asn Phe Arg Pro
 1   5   10   15

Ile Ser Leu Lys Asn Thr Asp Ala Lys Ile Leu Asn Lys Ile Leu Ala
                20   25   30

Asn Gln Ile Gln Gln His Ile Lys Lys Leu Ile His Asn Asp Arg Val
            35   40   45

Gly Phe Ile Pro Glu Met Gln Gly Trp Phe Asn Ile Cys Lys Ser Ile
        50   55   60

Asn Ile Val His His Ile Asn Arg Thr Lys Asp Lys Asn His Met Ile
65   70   75   80

Ile Ser Ile Asp Ala Glu Lys Ala Phe Asp Lys Ile Arg Gln Ser Phe
                85   90   95

Met Leu Lys Thr Leu Asn Lys Leu Gly Ile His Gly Met Tyr Leu Gly
            100   105   110

Arg

<210> 404
<211> 101
<212> PRT
<213> Homo sapiens

<400> 404
Lys Lys Glu Asn Phe Arg Pro Ile Ser Leu Lys Asn Thr Asp Ala Lys
1   5   10   15

Ile Leu Asn Lys Ile Leu Ala Asn Gln Ile Gln Gln His Ile Lys Lys
            20   25   30

Leu Ile His Asn Asp Arg Val Gly Phe Ile Pro Glu Met Gln Gly Trp
        35   40   45

Phe Asn Ile Cys Lys Ser Ile Asn Ile Val His His Ile Asn Arg Thr
    50   55   60

Lys Asp Lys Asn His Met Ile Ile Ser Ile Asp Ala Glu Lys Ala Phe
65   70   75   80

Asp Lys Ile Arg Gln Ser Phe Met Leu Lys Thr Leu Asn Lys Leu Gly
                85   90   95

Ile His Gly Met Tyr
                100

<210> 405
<211> 11
<212> PRT
<213> Homo sapiens

<400> 405
Asp Ala Lys Ile Leu Asn Lys Ile Leu Ala Asn
1   5   10

<210> 406
<211> 10
<212> PRT
<213> Homo sapiens

<400> 406
Ile Gln Gln His Ile Lys Lys Leu Ile His
1   5   10

<210> 407
<211> 19
<212> PRT
<213> Homo sapiens

<400> 407
Lys Asp Lys Asn His Met Ile Ile Ser Ile Asp Ala Glu Lys Ala Phe
1   5   10   15

Asp Lys Ile

<210> 408
<211> 10
<212> PRT
<213> Homo sapiens

<400> 408
Met Leu Lys Thr Leu Asn Lys Leu Gly Ile
 1   5   10

<210> 409
<211> 10
<212> PRT
<213> Homo sapiens

<400> 409
Lys Lys Glu Asn Phe Arg Pro Ile Ser Leu
 1   5   10

<210> 410
<211> 85
<212> PRT
<213> Homo sapiens

<400> 410
Trp Thr Met Phe Ile Asp Leu His Met Leu Asn Gln Pro Cys Ile Ser
 1   5   10   15

Gly Met Lys Pro Thr Arg Ser Leu Trp Ile Ser Phe Leu Met Cys Cys
            20   25   30

Trp Ile Trp Phe Ala Asn Ile Leu Leu Arg Ile Phe Ala Ser Val Phe
            35   40   45

Phe Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Cys Cys Val Ser Ala
        50   55   60

Arg Leu Trp Tyr Gln Asp Asp Ala Gly Leu Ile Asn Glu Leu Gly Arg
 65   70   75   80

Ile Pro Ser Phe Tyr
                85

<210> 411
<211> 72
<212> PRT
<213> Homo sapiens

<400> 411
Glu Arg Pro Glu Glu Gly Thr Glu Pro Ser Pro Ser Pro Val Ala Glu
 1   5   10   15

Gln Ala Ser Val Ser Met Thr Pro Val Phe Arg Ala Trp Gly Leu Trp
            20   25   30

Val Tyr Val Leu Pro Thr Gly Phe Pro Gly Pro Cys Cys Met Met Leu
            35   40   45

Leu Glu Leu Phe Pro Lys Glu Ser Val Pro Gln Ala Tyr Gln Gly Ile
    50   55   60

Leu Leu Tyr Leu His Phe Gly Phe
65   70

<210> 412
<211> 123
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 412
Arg Gly Glu Val Pro His Gln Pro His Pro Thr Arg Arg Thr Val Val
  1   5   10   15

Ser Gly Gln Ala Pro Trp Xaa Pro Gly Pro Xaa Ala Leu Gly Gln Xaa
           20   25   30

Val Glu Thr Ala Ala Gly Met Gly Met Pro Leu Val Thr Val Thr Ala
       35   40   45

Ala Thr Phe Pro Thr Leu Ser Cys Pro Pro Arg Ala Trp Pro Glu Val
    50   55   60

Glu Ala Pro Glu Ala Pro Ala Leu Pro Val Val Pro Glu Leu Pro Glu
65   70   75   80

Val Pro Met Glu Met Pro Leu Val Leu Pro Pro Glu Leu Glu Leu Leu
           85   90   95

Ser Leu Glu Ala Val His Arg Tyr Gln Xaa Gly Gly Thr Leu Met Gly
          100   105   110

Trp Thr Arg Ala Glu Ala Ser Ala Asn Gly Ser
        115   120

<210> 413
<211> 133
<212> PRT
<213> Homo sapiens

```
<400> 413
Met Val Leu Asp Pro Tyr Arg Ala Val Ala Leu Glu Leu Gln Ala Asn
  1               5                  10                  15

Arg Glu Pro Asp Phe Ser Ser Leu Val Ser Pro Leu Ser Pro Arg Arg
              20                  25                  30

Met Ala Ala Arg Val Phe Tyr Leu Leu Leu Gly Glu Cys Met His Val
          35                  40                  45

Cys Val Cys Met Trp Gly Arg Asp Thr Glu Thr Arg Gly Pro Tyr Arg
      50                  55                  60

Asp Ser Pro Asp Leu Pro Ser Pro Arg Leu Leu Thr Ser Ala Leu Ser
  65                  70                  75                  80

Ala Thr Asp Ser Ser Arg Glu Thr Arg Lys Ala Ile Trp Ser Pro Pro
                  85                  90                  95

Asp Pro Ala Gly Ala Gln Ile Pro Leu Arg Leu Glu Ser Ile Tyr Lys
              100                 105                 110

Ala Ala Arg Lys Pro Ala Thr Ser Ser Lys Pro Arg Arg Ala Ser Leu
              115                 120                 125

Lys Lys Lys Lys Lys
      130


<210> 414
<211> 11
<212> PRT
<213> Homo sapiens

<400> 414
Ala Phe Arg Asn Leu Pro Asn Leu Arg Ile Leu
  1               5                  10


<210> 415
<211> 13
<212> PRT
<213> Homo sapiens

<400> 415
Ala Phe Gln Gly Leu Phe His Leu Phe Glu Leu Arg Leu
  1               5                  10


<210> 416
<211> 206
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 416
Asn Lys Xaa Ile Leu Glu Val Pro Ser Ala Arg Thr Thr Arg Ile Met
  1               5                  10                  15
```

Gly Asp His Leu Asp Leu Leu Leu Gly Val Val Leu Met Ala Gly Pro
            20   25   30

Val Phe Gly Ile Pro Ser Cys Ser Phe Asp Gly Arg Ile Ala Phe Tyr
        35   40   45

Arg Phe Cys Asn Leu Thr Gln Val Pro Gln Val Leu Asn Thr Thr Glu
    50   55   60

Arg Leu Leu Leu Ser Phe Asn Tyr Ile Arg Thr Val Thr Ala Ser Ser
65   70   75   80

Phe Pro Phe Leu Glu Gln Leu Gln Leu Leu Glu Leu Gly Ser Gln Tyr
            85   90   95

Thr Pro Leu Thr Ile Asp Lys Glu Ala Phe Arg Asn Leu Pro Asn Leu
        100   105   110

Arg Ile Leu Asp Leu Gly Ser Ser Lys Ile Tyr Phe Leu His Pro Asp
        115   120   125

Ala Phe Gln Gly Leu Phe His Leu Phe Glu Leu Arg Leu Tyr Phe Cys
    130   135   140

Gly Leu Ser Asp Ala Val Leu Lys Asp Gly Tyr Phe Arg Asn Leu Lys
145   150   155   160

Ala Leu Thr Arg Leu Asp Leu Ser Lys Asn Gln Ile Arg Ser Leu Tyr
            165   170   175

Leu His Pro Ser Phe Gly Lys Leu Asn Ser Leu Lys Ser Ile Asp Phe
            180   185   190

Ser Ser Asn Gln Ile Phe Leu Val Cys Glu His Glu Leu Glu
        195   200   205

<210> 417
<211> 261
<212> PRT
<213> Homo sapiens

<400> 417
Ala His Ala Ala Leu Gln Leu Ser Leu Arg Thr Cys Gly Pro Cys Ser
    1   5   10   15

Ser Pro Tyr Pro His Ala Gly Leu Ala Ala Leu Leu Thr His Met Trp
            20   25   30

Ala Leu Gln Leu Ser Leu Pro Thr Cys Gly Leu Ala Ala Leu Leu Thr
        35   40   45

His Met Arg Pro Cys Ser Ser Pro Tyr Pro His Ala Gly Leu Ala Ala
    50   55   60

Leu Leu Thr His Met Gly Pro Cys Arg Ser Pro Tyr Pro His Gly Gly
65   70   75   80

Leu Ala Ala Val Leu Thr His Met Arg Ala Leu Gln Leu Ser Leu Pro
            85   90   95

Thr Trp Gly Leu Ala Ala Leu Leu Thr His Met Arg Pro Cys Ser Ser
            100   105   110

Pro Tyr Pro His Ala Gly Leu Ala Cys Cys Trp Leu Trp Ser Leu Ser

```
            115                   120                   125
Ser His Arg Ser Leu Gln Val Gln Ala Thr His Arg Leu Val Val Arg
    130                   135                   140
Thr Ile Lys Asp Arg Val Met Leu Lys Val Leu Pro Gln Thr Arg Arg
145                   150                   155                   160
Arg Gly Pro Phe Leu Ser Ser Cys Arg Asn Asp Val Met Arg Asn Cys
                165                   170                   175
Val Pro Arg His Ala Val Leu Val Thr Thr Cys Val Phe Val Ser Phe
                180                   185                   190
Pro Thr His Cys Lys Val Gly Ile Thr Gly Pro Ile Thr Gln Val Lys
            195                   200                   205
Gln Lys Pro Gly Asn His Ser Ser Pro Cys Pro Val Ile Gln Leu Val
    210                   215                   220
Ala Lys Ala Glu Phe Glu Leu Met Leu Pro Ser Val Pro Lys Pro Val
225                   230                   235                   240
Tyr Leu Thr Leu Val Leu Ser Cys Trp Cys Leu Cys Asp Val Pro Cys
                245                   250                   255
Leu Ser Val Ser Leu
            260


<210> 418
<211> 17
<212> PRT
<213> Homo sapiens

<400> 418
Leu Ala Cys Cys Trp Leu Trp Ser Leu Ser Ser His Arg Ser Leu Gln
  1               5                  10                  15

Val



<210> 419
<211> 59
<212> PRT
<213> Homo sapiens

<400> 419
Glu Ile Gly Ser His Ser Val Ala Gln Ala Gly Leu Glu Leu Pro Gly
  1               5                  10                  15

Ser Ser Asp Pro Pro Thr Ser Gly Ser Gln Ser Ala Gly Ile Thr Gly
            20                  25                  30

Val Ser Gln Gly Thr Gln Pro Ser Val Asp Leu Cys Gln Glu Glu Pro
        35                  40                  45

Ala Gly Ala Asp Gln Pro His Gly Ser Leu Gln
    50                  55


<210> 420
```

<211> 67
<212> PRT
<213> Homo sapiens

<400> 420
Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
 1   5   10   15

Leu Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
                20   25   30

Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
            35   40   45

Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Val Thr Cys
        50   55   60

Phe Gly Ala
 65

<210> 421
<211> 90
<212> PRT
<213> Homo sapiens

<400> 421
Met Leu Val Val Ser Thr Val Ile Ile Val Phe Trp Glu Phe Ile Asn
 1   5   10   15

Ser Thr Glu Gly Ser Phe Leu Trp Ile Tyr His Ser Lys Asn Pro Glu
                20   25   30

Val Asp Asp Ser Ser Ala Gln Lys Gly Trp Trp Phe Leu Ser Trp Phe
            35   40   45

Asn Asn Gly Ile His Asn Tyr Gln Gln Gly Glu Glu Asp Ile Asp Lys
        50   55   60

Glu Lys Gly Arg Glu Glu Thr Lys Gly Arg Lys Met Thr Gln Gln Ser
 65   70   75   80

Phe Gly Tyr Gly Thr Gly Leu Ile Gln Thr
                85   90

<210> 422
<211> 18
<212> PRT
<213> Homo sapiens

<400> 422
Phe Pro Gly Arg Thr His Ala Ser Gly Asn Val Lys Gly Lys Val Ile
 1   5   10   15

Leu Ser

<210> 423
<211> 106
<212> PRT
<213> Homo sapiens

<400> 423
Ala Asp Gln Glu Lys Ile Arg Asn Val Lys Gly Lys Val Ile Leu Ser
1   5   10   15

Met Leu Val Val Ser Thr Val Ile Ile Val Phe Trp Glu Phe Ile Asn
            20   25   30

Ser Thr Glu Gly Ser Phe Leu Trp Ile Tyr His Ser Lys Asn Pro Glu
        35   40   45

Val Asp Asp Ser Ser Ala Gln Lys Gly Trp Trp Phe Leu Ser Trp Phe
    50   55   60

Asn Asn Gly Ile His Asn Tyr Gln Gln Gly Glu Glu Asp Ile Asp Lys
65   70   75   80

Glu Lys Gly Arg Glu Glu Thr Lys Gly Arg Lys Met Thr Gln Gln Ser
            85   90   95

Phe Gly Tyr Gly Thr Gly Leu Ile Gln Thr
            100   105

<210> 424
<211> 236
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 424
Met Gln Ser Pro Leu Val Glu Cys Pro Pro Ser Ile His Tyr Trp
1   5   10   15

Pro Ser Val Pro Ala Gly Ala Gln Gly Ala Cys Ser Pro Met Phe His
            20   25   30

Ala Ala Gly Trp Ser Arg Ser Gln Pro Asn Gly Glu Ile Pro Ala Ser
            35   40   45

Ser Xaa Gly His Leu Ser Ile Gln Arg Ala Ala Leu Val Val Leu Glu
    50   55   60

Asn Tyr Tyr Lys Asp Phe Thr Ile Tyr Asn Pro Asn Leu Leu Thr Ala
65   70   75   80

Ser Lys Phe Arg Ala Ala Lys His Met Ala Gly Leu Lys Val Tyr Asn
            85   90   95

Val Asp Gly Pro Ser Asn Asn Ala Thr Gly Gln Ser Arg Ala Met Ile
            100   105   110

Ala Ala Ala Ala Arg Arg Arg Asp Ser Ser His Asn Glu Leu Tyr Tyr
        115   120   125

Glu Glu Ala Glu His Glu Arg Arg Val Lys Lys Arg Lys Ala Arg Leu
    130   135   140

Val Val Ala Val Glu Glu Ala Phe Ile His Ile Gln Arg Leu Gln Ala
145   150   155   160

```
Glu Glu Gln Gln Lys Ala Pro Gly Glu Val Met Asp Pro Arg Glu Ala
                165                 170             175

Ala Gln Ala Ile Phe Pro Ser Met Ala Arg Ala Leu Gln Lys Tyr Leu
            180             185             190

Arg Ile Thr Arg Gln Gln Asn Tyr His Ser Met Glu Ser Ile Leu Gln
        195             200             205

Ala Pro Gly Leu Leu His His Gln Arg His Asp Pro Gln Gly Leu Pro
    210             215             220

Arg Thr Val Pro Gln Cys Gly Pro His Pro Ala Ile
225             230             235
```

<210> 425
<211> 23
<212> PRT
<213> Homo sapiens

<400> 425
```
Leu Ser Ile Gln Arg Ala Ala Leu Val Val Leu Glu Asn Tyr Tyr Lys
  1           5               10              15

Asp Phe Thr Ile Tyr Asn Pro
            20
```

<210> 426
<211> 15
<212> PRT
<213> Homo sapiens

<400> 426
```
Asp Ser Ser His Asn Glu Leu Tyr Tyr Glu Glu Ala Glu His Glu
  1           5               10              15
```

<210> 427
<211> 18
<212> PRT
<213> Homo sapiens

<400> 427
```
Phe Pro Ser Met Ala Arg Ala Leu Gln Lys Tyr Leu Arg Ile Thr Arg
  1           5               10              15

Gln Gln
```

<210> 428
<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 428
Met Ala Phe Lys Leu Leu Ile Leu Leu Ile Gly Thr Trp Ala Leu Phe
1   5   10   15

Phe Arg Lys Arg Arg Ala Asp Met Pro Arg Val Phe Val Phe Arg Ala
            20   25   30

Leu Leu Leu Val Leu Ile Phe Leu Phe Cys Gly Phe Pro Ile Gly Phe
        35   40   45

Phe Thr Gly Ser Ala Phe Trp Thr Leu Gly Asn Arg Asn Tyr Gln Gly
    50   55   60

Ile Val Gln Tyr Ala Val Ser Pro Cys Gly Met Pro Ser Ser Phe His
65   70   75   80

Pro Leu Leu Ala Ile Arg Pro Cys Trp Ser Ser Gly Ser Leu Gln Pro
                85   90   95

Asn Val Pro Arg Cys Arg Leu Val Pro Leu Pro Thr Glu Trp Gly Asn
            100   105   110

Pro Arg Phe Gln Xaa Gly Thr Pro Glu Tyr Pro Ala Ser Ser Ile Gly
            115   120   125

Gly Pro Arg Lys Leu Leu Gln Arg Phe His His Leu
    130   135   140

<210> 429
<211> 49
<212> PRT
<213> Homo sapiens

<400> 429
Met Gln Ser Pro Leu Trp Met Pro Ser Ser Ser Ser Ile Thr Trp Pro
1   5   10   15

Ser Ser Cys Trp Ser Ser Gly Ser Cys Ser Pro Cys Ser Arg Cys Arg
            20   25   30

Trp Ser Arg Ser Thr Asp Gly Glu Ser Arg Phe Tyr Ser Leu Gly His
        35   40   45

Leu

<210> 430
<211> 303
<212> PRT
<213> Homo sapiens

<400> 430
Met Gln Ser Pro Leu Trp Met Pro Ser Ser Ser Ser Ile Thr Trp Pro
1   5   10   15

Ser Ser Cys Trp Ser Ser Gly Ser Cys Ser Pro Cys Ser Arg Cys Arg
            20   25   30

Trp Ser Arg Ser Thr Asp Gly Glu Ser Arg Phe Tyr Ser Leu Gly His
        35   40   45

Leu Ser Ile Gln Arg Ala Ala Leu Val Val Leu Glu Asn Tyr Tyr Lys

```
          50                    55                    60
Asp Phe Thr Ile Tyr Asn Pro Asn Leu Leu Thr Ala Ser Lys Phe Arg
65                  70                  75                  80

Ala Ala Lys His Met Ala Gly Leu Lys Val Tyr Asn Val Asp Gly Pro
                85                  90                  95

Ser Asn Asn Ala Thr Gly Gln Ser Arg Ala Met Ile Ala Ala Ala Ala
            100                 105                 110

Arg Arg Arg Asp Ser Ser His Asn Glu Leu Tyr Tyr Glu Glu Ala Glu
        115                 120                 125

His Glu Arg Arg Val Lys Lys Arg Lys Ala Arg Leu Val Val Ala Val
    130                 135                 140

Glu Glu Ala Phe Ile His Ile Gln Arg Leu Gln Ala Glu Glu Gln Gln
145                 150                 155                 160

Lys Ala Pro Gly Glu Val Met Asp Pro Arg Glu Ala Ala Gln Ala Ile
            165                 170                 175

Phe Pro Ser Met Ala Arg Ala Leu Gln Lys Tyr Leu Arg Ile Thr Arg
            180                 185                 190

Gln Gln Asn Tyr His Ser Met Glu Ser Ile Leu Gln His Leu Ala Phe
        195                 200                 205

Cys Ile Thr Asn Gly Met Thr Pro Lys Ala Phe Leu Glu Arg Tyr Leu
    210                 215                 220

Ser Ala Gly Pro Thr Leu Gln Tyr Asp Lys Asp Arg Trp Leu Ser Thr
225                 230                 235                 240

Gln Trp Arg Leu Val Ser Asp Glu Ala Leu Thr Asn Gly Leu Arg Asp
            245                 250                 255

Gly Ile Val Phe Val Leu Lys Cys Leu Asp Phe Ser Leu Val Val Asn
            260                 265                 270

Val Lys Lys Ile Pro Phe Ile Ile Leu Ser Glu Glu Phe Ile Asp Pro
        275                 280                 285

Lys Ser His Lys Phe Val Leu Arg Leu Gln Ser Glu Thr Ser Val
    290                 295                 300
```

<210> 431
<211> 92
<212> PRT
<213> Homo sapiens

<400> 431
```
Met Pro Arg Val Phe Val Phe Arg Ala Leu Leu Leu Val Leu Ile Phe
  1               5                  10                  15

Leu Phe Val Val Ser Tyr Trp Leu Phe Tyr Gly Val Arg Ile Leu Asp
            20                  25                  30

Ser Arg Asp Arg Asn Tyr Gln Gly Ile Val Gln Tyr Ala Val Ser Leu
        35                  40                  45

Val Asp Ala Leu Leu Phe Ile His Tyr Leu Ala Ile Val Leu Leu Glu
    50                  55                  60
```

Leu Arg Gln Leu Gln Pro Met Phe Thr Leu Gln Val Val Arg Ser Thr
65   70   75   80

Asp Gly Glu Ser Arg Phe Tyr Ser Leu Gly His Leu
                85   90

<210> 432
<211> 114
<212> PRT
<213> Homo sapiens

<400> 432
Met Ala Phe Lys Leu Leu Ile Leu Leu Ile Gly Thr Trp Ala Leu Phe
1   5   10   15

Phe Arg Lys Arg Arg Ala Asp Met Pro Arg Val Phe Val Phe Arg Ala
            20   25   30

Leu Leu Leu Val Leu Ile Phe Leu Phe Val Val Ser Tyr Trp Leu Phe
            35   40   45

Tyr Gly Val Arg Ile Leu Asp Ser Arg Asp Arg Asn Tyr Gln Gly Ile
    50   55   60

Val Gln Tyr Ala Val Ser Leu Val Asp Ala Leu Leu Phe Ile His Tyr
65   70   75   80

Leu Ala Ile Val Leu Leu Glu Leu Arg Gln Leu Gln Pro Met Phe Thr
                85   90   95

Leu Gln Val Val Arg Ser Thr Asp Gly Glu Ser Arg Phe Tyr Ser Leu
                100   105   110

Gly His

<210> 433
<211> 37
<212> PRT
<213> Homo sapiens

<400> 433
Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
1   5   10   15

Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
            20   25   30

Ser Pro Arg Thr Leu
        35

<210> 434
<211> 20
<212> PRT
<213> Homo sapiens

<400> 434
Ile Tyr Gly Lys Thr Gly Gln Pro Asp Lys Ile Tyr Val Glu Leu His
1   5   10   15

Gln Asn Ser Pro
            20

<210> 435
<211> 16
<212> PRT
<213> Homo sapiens

<400> 435
Phe Leu Glu Pro Leu Ser Gly Leu Tyr Thr Cys Thr Leu Ser Tyr Lys
 1   5   10   15

<210> 436
<211> 16
<212> PRT
<213> Homo sapiens

<400> 436
Leu Gln Val Val Arg Leu Asp Ser Cys Arg Pro Gly Phe Gly Lys Asn
 1   5   10   15

<210> 437
<211> 12
<212> PRT
<213> Homo sapiens

<400> 437
Cys Val Ser Val Leu Thr Tyr Gly Ala Lys Ser Cys
 1   5   10

<210> 438
<211> 26
<212> PRT
<213> Homo sapiens

<400> 438
Lys Asn Asn Trp Trp Gln Gly Val Val Val Leu Ala Cys Asn Pro Ser
 1   5   10   15

Thr Leu Gly Asp Arg Gly Ser Trp Ile Thr
            20   25

<210> 439
<211> 17
<212> PRT
<213> Homo sapiens

<400> 439
Gly Gln Glu Phe Glu Thr Arg Leu Thr Asn Ile Val Lys Leu Arg Leu

| | 1 | | | | 5 | | | | | 10 | | | | | 15 |

Tyr

<210> 440
<211> 24
<212> PRT
<213> Homo sapiens

<400> 440
Ser Cys Leu Gly Leu Pro Lys Cys Trp Asp Tyr Arg Gln Glu Pro Pro
1   5   10   15

His Pro Ala Thr Ser Tyr Phe Leu
                20

<210> 441
<211> 308
<212> PRT
<213> Homo sapiens

<400> 441
Pro Ala Lys Gly Glu Gly Cys Arg Arg Leu His Asp His Pro His Ile
1   5   10   15

Trp Arg Leu Leu Trp Ala His Ser Asp Pro Asp Pro Leu Pro Thr Gln
                20   25   30

Pro Arg Ala Glu Gln Gly Glu Thr Glu Phe Cys Val Pro Val Gly Pro
            35   40   45

Leu Cys His Asp Trp His Pro Leu Pro Val Asp Val Leu Ala Gln Leu
    50   55   60

Gln Leu Ser His Ile Leu Pro Trp Gly Gln Pro Ala Pro Ser Arg His
65   70   75   80

Gln His Leu Leu Leu Leu Gly Ser Leu Arg Ala Tyr Leu Gly Gly Asn
                85   90   95

Ile Gln Cys Pro Ala Lys Lys Gly Lys Leu Asp Met Val His Ile Gln
                100   105   110

Asn Ala Thr Leu Ala Gly Gly Val Ala Val Gly Thr Ala Ala Glu Met
            115   120   125

Met Leu Met Pro Tyr Gly Ala Leu Ile Ile Gly Phe Val Cys Gly Ile
    130   135   140

Ile Ser Thr Leu Gly Phe Val Tyr Leu Thr Pro Phe Leu Glu Ser Arg
145   150   155   160

Leu His Ile Gln Asp Thr Cys Gly Ile Asn Asn Leu His Gly Ile Pro
                165   170   175

Gly Ile Ile Gly Gly Ile Val Gly Ala Val Thr Ala Ala Ser Ala Ser
            180   185   190

Leu Glu Val Tyr Gly Lys Glu Gly Leu Val His Ser Phe Asp Phe Gln
            195   200   205

Gly Phe Asn Gly Asp Trp Thr Ala Arg Thr Gln Gly Lys Phe Gln Ile
    210   215   220

Tyr Gly Leu Leu Val Thr Leu Ala Met Ala Leu Met Gly Gly Ile Ile
225   230   235   240

Val Gly Leu Ile Leu Arg Leu Pro Phe Trp Gly Gln Pro Ser Asp Glu
            245   250   255

Asn Cys Phe Glu Asp Ala Val Tyr Trp Glu Met Pro Glu Gly Asn Ser
        260   265   270

Thr Val Tyr Ile Pro Glu Asp Pro Thr Phe Lys Pro Ser Gly Pro Ser
        275   280   285

Val Pro Ser Val Pro Met Val Ser Pro Leu Pro Met Ala Ser Ser Val
    290   295   300

Pro Leu Val Pro
305

<210> 442
<211> 145
<212> PRT
<213> Homo sapiens

<400> 442
Met Thr Phe Phe Gln Val Thr Leu Phe Ala Val Asn Glu Phe Ile Leu
  1   5   10   15

Leu Asn Leu Leu Lys Val Lys Asp Ala Gly Gly Ser Met Thr Ile His
        20   25   30

Thr Phe Gly Ala Tyr Phe Gly Leu Thr Val Thr Arg Ile Leu Tyr Arg
        35   40   45

Arg Asn Leu Glu Gln Ser Lys Glu Arg Gln Asn Ser Val Tyr Gln Ser
    50   55   60

Asp Leu Phe Ala Met Ile Gly Thr Leu Phe Leu Trp Met Tyr Trp Pro
65   70   75   80

Ser Phe Asn Ser Ala Ile Ser Tyr His Gly Asp Ser Gln His Arg Ala
            85   90   95

Ala Ile Asn Thr Tyr Cys Ser Leu Ala Ala Cys Val Leu Thr Ser Val
        100   105   110

Ala Ile Ser Ser Ala Leu His Lys Lys Gly Lys Leu Asp Met Val His
        115   120   125

Ile Gln Asn Ala Thr Leu Ala Gly Gly Val Ala Val Gly Thr Ala Ala
    130   135   140

Glu
145

<210> 443
<211> 108
<212> PRT
<213> Homo sapiens

<400> 443
```
Pro Arg Val Arg Thr Arg Ala Pro Val Val Pro Pro Ala Gly His Arg
 1               5                   10              15
Ala Leu Ser Pro Ala Gly Val Leu Leu Ala Val Pro Ala Met Leu Ser
            20                  25                  30
Leu Asp Phe Leu Asp Asp Val Arg Arg Met Asn Lys Arg Gln Val Ser
        35                  40                  45
Leu Ser Val Leu Phe Phe Ser Trp Leu Phe Leu Ser Leu Arg Gly Cys
    50                  55                  60
Cys Cys Gly Ala Arg Arg Thr Pro Gly Phe Trp Cys Glu Gly Leu Ser
65                  70                  75                  80
Trp Ser Asp Thr Arg Val Ile Arg Phe Leu Trp Arg Leu Trp Pro Glu
                85                  90                  95
Ala Ala Leu Ser Ala Ser Leu Phe Leu Thr Pro Asn
            100                 105
```

<210> 444
<211> 84
<212> PRT
<213> Homo sapiens

<400> 444
```
Met Cys Val Tyr Ile Tyr Val Tyr Thr Cys Met Cys Val Tyr Ile Tyr
 1               5                   10                  15
Val Tyr Ile Cys Ile Cys Val Tyr Ile His Val Tyr Thr Cys Ile Cys
            20                  25                  30
Val Tyr Ile His Val Tyr Thr Cys Val Cys Val Tyr Ile Tyr Val Tyr
            35                  40                  45
Thr Cys Met Cys Val Tyr Ile Cys Ile Tyr Val Tyr Ile Tyr Ile Cys
    50                  55                  60
Val Cys Val Ser Val Tyr Ile Tyr Asn Arg Ile Ile Tyr Ile Leu Leu
65                  70                  75                  80
Ala Leu Ser Leu
```

<210> 445
<211> 16
<212> PRT
<213> Homo sapiens

<400> 445
```
His Ala Ser Ala Trp Asn Leu Ile Leu Leu Thr Val Phe Thr Leu Ser
 1               5                   10                  15
```

<210> 446
<211> 24

<212> PRT
<213> Homo sapiens

<400> 446
Val Tyr Ala Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu
 1   5   10   15

Asp Thr Gln Leu Leu Met Gly Asn
                20

<210> 447
<211> 18
<212> PRT
<213> Homo sapiens

<400> 447
Glu Glu Tyr Ile Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr
 1   5   10   15

Ile Phe

<210> 448
<211> 26
<212> PRT
<213> Homo sapiens

<400> 448
Trp Asn Leu Ile Leu Leu Thr Val Phe Thr Leu Ser Met Ala Tyr Leu
 1   5   10   15

Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr
                20   25

<210> 449
<211> 138
<212> PRT
<213> Homo sapiens

<400> 449
Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr Thr Ser
 1   5   10   15

Val Leu Leu Cys Leu Gly Ile Thr Ala Leu Val Cys Leu Ser Val Thr
                20   25   30

Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln Gly Val
          35   40   45

Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile Leu Ala
      50   55   60

Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala Val Tyr Ala
 65   70   75   80

Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu Asp Thr Gln
                85   90   95

Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro Glu Glu Tyr Ile
                100   105   110

Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr Ile Phe Thr Phe
        115   120   125

Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu
    130   135

<210> 450
<211> 11
<212> PRT
<213> Homo sapiens

<400> 450
Thr Leu Ser Leu Leu Val Ser Leu His Thr Val
  1   5   10

<210> 451
<211> 241
<212> PRT
<213> Homo sapiens

<400> 451
Met Ser Ser Ser Gly Thr Ser Asp Ala Ser Pro Ser Gly Ser Pro Val
  1   5   10   15

Leu Ala Ser Tyr Lys Pro Ala Pro Pro Lys Asp Lys Leu Pro Glu Thr
            20   25   30

Pro Arg Arg Arg Met Lys Lys Ser Leu Ser Ala Pro Leu His Pro Glu
        35   40   45

Phe Glu Glu Val Tyr Arg Phe Gly Ala Glu Ser Arg Lys Leu Leu Leu
    50   55   60

Arg Glu Pro Val Asp Ala Met Pro Asp Pro Thr Pro Phe Leu Leu Ala
65   70   75   80

Arg Glu Ser Ala Glu Val His Leu Ile Lys Glu Arg Pro Leu Val Ile
            85   90   95

Pro Pro Ile Ala Ser Asp Arg Ser Gly Glu Gln His Ser Pro Ala Arg
            100   105   110

Glu Lys Pro His Lys Ala His Val Gly Val Ala His Arg Ile His His
        115   120   125

Ala Thr Pro Pro Gln Pro Ala Arg Gly Glu Asp Pro Gly Gly Arg Pro
    130   135   140

Gly Glu Arg Arg Gln Gly Gly Glu Glu Ala Leu Arg Asp Gly Gln Asn
145   150   155   160

Cys Val Lys Pro Ala Val Pro His Pro Ala Leu Ser Met His Cys Glu
            165   170   175

His His Trp Glu Ile Ser Ala Thr Pro Phe Leu Phe Asn Pro Met His
            180   185   190

Ala Lys His Phe Ser His Leu Pro Thr His Ser Pro Ser Ala Ser Leu
        195   200   205

Ala Leu Phe Phe Thr Pro Lys Tyr Asp Arg Val Pro Ala Ala Glu Tyr

```
        210                 215                 220
Val Phe Pro Asn Cys Cys Gly Gln Thr Pro Val Cys Arg Ile Ala Cys
225                 230                 235                 240

Phe
```

```
<210> 452
<211> 85
<212> PRT
<213> Homo sapiens

<400> 452
Met Ser Ser Ser Gly Thr Ser Asp Ala Ser Pro Ser Gly Ser Pro Val
 1               5                  10                  15

Leu Ala Ser Tyr Lys Pro Ala Pro Pro Lys Asp Lys Leu Pro Glu Thr
                20                  25                  30

Pro Arg Arg Arg Met Lys Lys Ser Leu Ser Ala Pro Leu His Pro Glu
            35                  40                  45

Phe Glu Glu Val Tyr Arg Phe Gly Ala Glu Ser Arg Lys Leu Leu Leu
        50                  55                  60

Arg Glu Pro Val Asp Ala Met Pro Asp Pro Thr Pro Phe Leu Leu Ala
65                  70                  75                  80

Arg Glu Ser Ala Glu
                85
```

```
<210> 453
<211> 63
<212> PRT
<213> Homo sapiens

<400> 453
Val His Leu Ile Lys Glu Arg Pro Leu Val Ile Pro Pro Ile Ala Ser
 1               5                  10                  15

Asp Arg Ser Gly Glu Gln His Ser Pro Ala Arg Glu Lys Pro His Lys
                20                  25                  30

Ala His Val Gly Val Ala His Arg Ile His His Ala Thr Pro Pro Gln
            35                  40                  45

Pro Ala Arg Gly Glu Asp Pro Gly Gly Arg Pro Gly Glu Arg Arg
        50                  55                  60
```

```
<210> 454
<211> 93
<212> PRT
<213> Homo sapiens

<400> 454
Gln Gly Gly Glu Glu Ala Leu Arg Asp Gly Gln Asn Cys Val Lys Pro
 1               5                  10                  15

Ala Val Pro His Pro Ala Leu Ser Met His Cys Glu His His Trp Glu
```

```
            20                    25                    30
Ile Ser Ala Thr Pro Phe Leu Phe Asn Pro Met His Ala Lys His Phe
        35                    40                    45

Ser His Leu Pro Thr His Ser Pro Ser Ala Ser Leu Ala Leu Phe Phe
        50                    55                    60

Thr Pro Lys Tyr Asp Arg Val Pro Ala Ala Glu Tyr Val Phe Pro Asn
65                    70                    75                    80

Cys Cys Gly Gln Thr Pro Val Cys Arg Ile Ala Cys Phe
                    85                    90
```

```
<210> 455
<211> 59
<212> PRT
<213> Homo sapiens

<400> 455
Lys Arg Ala Ser Gln Pro Pro Cys Thr Arg Asn Leu Lys Arg Ser Thr
1                   5                   10                  15

Asp Ser Gly Gln Arg Ala Gly Asn Ser Phe Cys Gly Asn Gln Trp Met
                    20                  25                  30

Leu Cys Pro Thr Pro Pro His Phe Cys Trp Leu Gly Ser Pro Pro Arg
            35                    40                    45

Ser Thr Ser Ser Lys Arg Gly Pro Ser Ser Ser
        50                    55
```

```
<210> 456
<211> 65
<212> PRT
<213> Homo sapiens

<400> 456
Pro Pro Ser Pro Pro Thr Glu Ala Ala Ser Ser Thr Ala Arg Pro Ala
  1               5                   10                  15

Lys Ser Arg Thr Arg Pro Thr Ser Gly Trp His Ile Gly Ser Thr Thr
                20                  25                  30

Pro Pro Arg Arg Ser Gln Pro Glu Val Lys Thr Leu Ala Val Asp Gln
            35                  40                  45

Val Asn Gly Gly Lys Val Val Arg Lys His Ser Gly Thr Asp Arg Thr
        50                  55                  60

Val
65
```

```
<210> 457
<211> 148
<212> PRT
<213> Homo sapiens

<400> 457
Met Trp Asn Pro Asn Ala Gly Gln Pro Gly Pro Asn Pro Tyr Pro Pro
```

```
        1                5                        10                          15
      Asn Ile Gly Cys Pro Gly Gly Ser Asn Pro Ala His Pro Pro Pro Ile
                     20                  25                  30
      Asn Pro Pro Phe Pro Pro Gly Pro Cys Pro Pro Pro Gly Ala Pro
               35                  40                  45
      His Gly Asn Pro Ala Phe Pro Pro Gly Gly Pro Pro His Pro Val Pro
           50                  55                  60
      Gln Pro Gly Tyr Pro Gly Cys Gln Pro Leu Gly Pro Tyr Pro Pro Pro
      65                  70                  75                  80
      Tyr Pro Pro Pro Ala Pro Gly Ile Pro Pro Val Asn Pro Leu Ala Pro
                     85                  90                  95
      Gly Met Val Gly Pro Ala Val Ile Val Asp Lys Lys Met Gln Lys Lys
                     100                 105                 110
      Met Lys Lys Ala His Lys Lys Met His Lys His Gln Lys His His Lys
               115                 120                 125
      Tyr His Lys His Gly Lys His Ser Ser Ser Ser Ser Ser Ser Ser Ser
           130                 135                 140
      Ser Asp Ser Asp
      145


      <210> 458
      <211> 58
      <212> PRT
      <213> Homo sapiens

      <400> 458
      Arg Val Gly Pro Asp Ala Trp Ala Asp Ala Trp Glu Gln Ala Gln Ala
        1                5                        10                          15
      Ala Val Glu Arg Leu Glu Asp Thr Pro Lys His Val Glu Ser Gln Cys
                     20                  25                  30
      Arg Ala Ala Arg Ala Lys Ser Ile Ser Pro Gln Tyr Trp Val Pro Trp
                     35                  40                  45
      Arg Phe Gln Ser Cys Pro Pro Thr Thr Tyr
           50                  55


      <210> 459
      <211> 84
      <212> PRT
      <213> Homo sapiens

      <400> 459
      Ser Thr Leu Ser Pro Arg Pro Leu Ser Ser Ser Pro Arg Ser Ser Pro
        1                5                        10                          15
      Trp Gln Ser Ser Phe Pro Pro Arg Trp Ala Pro Ser Ser Cys Ala Thr
                     20                  25                  30
      Ala Arg Val Ser Arg Met Pro Thr Val Gly Ser Leu Pro Ser Ser Ile
               35                  40                  45
```

Pro Thr Ala Cys Pro Trp Asn Pro Ser Cys Glu Ser Leu Gly Ser Trp
    50   55   60

His Gly Trp Thr Ser Ser Asp Ser Arg Gln Glu Asp Ala Glu Glu Asn
 65   70   75   80

Glu Glu Ser Ser

<210> 460
<211> 86
<212> PRT
<213> Homo sapiens

<400> 460
Met Pro Gly Ser Gln Gly Gln Ile His Ile Pro Pro Ile Leu Gly Ala
 1   5   10   15

Leu Glu Val Pro Ile Leu Pro Thr His His Leu Leu Ile His Pro Phe
                20   25   30

Pro Gln Ala Pro Val Leu Leu Pro Gln Glu Leu Pro Met Ala Ile Gln
            35   40   45

Leu Ser Pro Gln Val Gly Pro Leu Ile Leu Cys His Ser Gln Gly Ile
    50   55   60

Gln Asp Ala Asn Arg Trp Val Pro Thr Leu Leu His Thr His Arg Leu
 65   70   75   80

Pro Leu Glu Ser Leu Leu
                85

<210> 461
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 461
Met Ala Ser Ile Pro Pro Leu Pro Pro Pro Leu Pro Ala Val Ile Leu
 1   5   10   15

Thr Glu Tyr Arg Pro Trp Thr Leu Pro Ser Ser Leu Thr Ser Ser Ala
                20   25   30

Leu Pro Ser Ser Phe Arg Cys His Val Val Leu Gly Glu Cys Ser Pro
            35   40   45

Cys Ala Pro His Pro Leu Pro Xaa Pro Glu Pro His Pro Ala Val Glu
    50   55   60

Pro
 65

<210> 462

<211> 147
<212> PRT
<213> Homo sapiens

<400> 462
Pro Arg His Thr Tyr Trp Gly Ile Trp Leu Val Pro Ala Ala Met Ala
  1   5   10   15

Ser Pro His Ser His Pro Ala Gln Gly Val Leu Gln Pro Pro Gly Pro
               20   25   30

Gln Pro Arg Trp Glu Asp Arg Val Ala Leu Gly Thr Arg Gly Arg Ser
           35   40   45

Pro Gly Ala Tyr Leu Thr Glu Ser Ala Pro Gln Gln Ala Ser Thr Thr
       50   55   60

Pro Gly Pro Pro Thr Cys His Gly Lys Val Gly Ser Glu Trp Ala Trp
  65   70   75   80

Leu Gly Ala Ala Pro Gly Pro Leu Pro Thr His Pro Ser His Tyr Ala
               85   90   95

Ile Arg Val Pro Ser Asn Ile Cys Ser Cys Pro Gly Ala Ser Ser Ala
           100   105   110

Pro Ala Leu Arg Gly Val Val Arg Gln Pro Pro Gly Pro Gln Asn Pro
       115   120   125

Arg Gln Gly Gly Arg Arg Gly Thr Arg Ala Ser Pro Val Gly Ser Leu
   130   135   140

Phe Cys Val
145

<210> 463
<211> 105
<212> PRT
<213> Homo sapiens

<400> 463
Met Phe Ala Val Leu Pro Ala Val Glu Gly Arg Ala Thr Pro His Gln
  1   5   10   15

Asp Arg Thr Cys Tyr Pro Ser Arg Ser Arg Pro Trp Pro Ser Gln Pro
               20   25   30

Ser Pro Arg Gly Ser Met Pro Val Pro Arg Pro Gly Ala Ala Arg Gly
           35   40   45

Gln Leu Asp Gly His Val Gln Gly Gln Gly Trp Ala Leu Gln Trp Gly
       50   55   60

Gly Pro Pro Ala Pro Ala Val Tyr Arg Arg Met Ala Leu Pro Pro Arg
  65   70   75   80

Ala Ala Gly Ser Tyr Leu Asp Arg Lys Cys Pro His Pro Leu Pro Gly
               85   90   95

Ala Arg Leu Cys Pro Gly Leu Pro Leu
           100   105

<210> 464
<211> 127
<212> PRT
<213> Homo sapiens

<400> 464
Val Phe Gly Ala Val Phe Leu Thr Thr Pro Ser His Asp Leu Ala Thr
1   5   10   15

Pro Thr Gly Ala Ser Gly Trp Cys Leu Leu Pro Trp Pro Ala Pro Thr
            20   25   30

Leu Thr Leu His Arg Gly Ser Cys Ser Pro Gln Ala His Ser Leu Val
        35   40   45

Gly Arg Thr Gly Trp Pro Trp Gly Gln Glu Gly Gly Ala Gln Gly Leu
    50   55   60

Thr Ser Leu Arg Val Leu Pro Ser Arg His Pro Leu Pro Gln Gly Pro
65   70   75   80

Pro His Val Met Ala Arg Leu Val Val Asn Gly Pro Gly Trp Glu Gln
            85   90   95

Pro Leu Ala His Cys Pro Pro Thr His Leu Thr Met Gln Phe Glu Phe
            100   105   110

Gln Ala Thr Phe Ala Pro Ala Leu Gly Pro Ala Leu Pro Gln Pro
        115   120   125

<210> 465
<211> 186
<212> PRT
<213> Homo sapiens

<400> 465
His Glu Glu Pro Pro Ala Gly Phe Gly Leu Arg Ser Leu Trp Arg Arg
1   5   10   15

Ser Pro Pro His Glu Val Gly Ala Arg Leu Pro Asn Gly Ala Phe Gly
            20   25   30

Phe Ser Val Arg Cys Leu Leu Cys Phe Pro Pro Trp Arg Ala Glu Pro
        35   40   45

Pro His Ile Arg Ile Gly Arg Ala Thr Pro Pro Gly Pro Gly Pro Gly
    50   55   60

Pro Ala Ser Pro Ala Leu Glu Ala Arg Cys Leu Cys Gln Gly Gln Gly
65   70   75   80

Gln Pro Glu Gly Ser Trp Met Ala Thr Cys Arg Val Lys Ala Gly Pro
            85   90   95

Cys Ser Gly Ala Gly Arg Gln Pro Gln Gln Phe Thr Asp Ala Trp Leu
            100   105   110

Phe Leu Pro Glu Gln Pro Ala Ala Thr Trp Thr Gly Asn Val Leu Ile
        115   120   125

Pro Ser Leu Gly Pro Gly Ser Ala Leu Ala Phe Leu Cys Glu Pro Leu
    130   135   140

Leu Ser Leu Cys Cys Leu Gly Thr Pro Asp Arg Gly Val Arg Val Cys

```
145                    150                   155                    160
Pro Ser Val Thr Phe Tyr Ser Pro Arg Val Glu Glu Arg Lys Arg Gly
                165                   170                   175

Lys Ser Lys Gly Val Gln Thr Pro Pro Gln
            180                   185
```

<210> 466
<211> 100
<212> PRT
<213> Homo sapiens

<400> 466
```
Met Ala Thr Cys Arg Val Lys Ala Gly Pro Cys Ser Gly Ala Gly Arg
  1               5                   10                  15

Gln Pro Gln Gln Phe Thr Asp Ala Trp Leu Phe Leu Pro Glu Gln Pro
                20                  25                  30

Ala Ala Thr Trp Thr Gly Asn Val Leu Ile Pro Ser Leu Gly Pro Gly
            35                  40                  45

Ser Ala Leu Ala Phe Leu Cys Glu Pro Leu Leu Ser Leu Cys Cys Leu
       50                  55                  60

Gly Thr Pro Asp Arg Gly Val Arg Val Cys Pro Ser Val Thr Phe Tyr
 65                  70                  75                  80

Ser Pro Arg Val Glu Glu Arg Lys Arg Gly Lys Ser Lys Gly Val Gln
                85                  90                  95

Thr Pro Pro Gln
            100
```

<210> 467
<211> 244
<212> PRT
<213> Homo sapiens

<400> 467
```
Met Lys Trp Phe Ser Thr Gln Pro Leu Trp Leu Asn Thr Lys Gln Arg
  1               5                   10                  15

Ser His Arg Arg Gly Pro Gly Pro Pro Pro Ala Pro Leu Ser Gly Val
                20                  25                  30

Leu Gly Ser Arg Gly Leu Pro His His Pro Ser Gln Gly Trp Gly Arg
            35                  40                  45

Ala Gly Pro Arg Ala Gly Ala Asn Val Ala Trp Asn Ser Asn Cys Ile
       50                  55                  60

Val Arg Trp Val Gly Gly Gln Trp Ala Arg Gly Cys Ser Gln Pro Gly
 65                  70                  75                  80

Pro Phe Thr Thr Asn Leu Ala Met Thr Cys Gly Gly Pro Trp Gly Ser
                85                  90                  95

Gly Cys Leu Leu Gly Ser Thr Leu Ser Glu Val Ser Pro Trp Ala Pro
            100                 105                 110
```

```
Pro Ser Cys Pro Gln Gly His Pro Val Leu Pro Thr Arg Leu Trp Ala
        115             120                 125

Trp Gly Leu Gln Asp Pro Leu Cys Arg Val Arg Val Gly Ala Gly His
    130             135                 140

Gly Ser Arg His Gln Pro Asp Ala Pro Val Gly Val Ala Arg Ser Trp
145             150                 155                 160

Asp Gly Val Val Arg Asn Thr Ala Pro Lys Thr Gln Asn Lys Asn Thr
            165                 170                 175

Thr Asn Gly Arg Arg Ser Pro Pro Pro Thr Glu Val Gly Phe Glu Pro
        180             185                 190

Leu Leu Ile Phe Pro Val Ser Phe Leu Gln Pro Leu Val Ser Arg Lys
        195             200                 205

Ser Gln Thr Gly Thr His Ala His His Gly Gln Glu Ser Arg Asp Ser
    210             215                 220

Thr Lys Lys Gly Gly Val His Arg Gly Arg Pro Gly Gln Ser Leu Ala
225             230                 235                 240

Pro Gly Arg Gly
```

<210> 468
<211> 165
<212> PRT
<213> Homo sapiens

<400> 468
```
Lys Val Thr Asp Gly His Thr Arg Thr Pro Arg Ser Gly Val Pro Arg
  1             5                 10                  15

Gln His Lys Glu Arg Arg Gly Ser Gln Arg Lys Ala Arg Ala Glu Pro
            20                  25                  30

Gly Pro Arg Glu Gly Met Arg Thr Phe Pro Val Gln Val Ala Ala Gly
        35              40                  45

Cys Ser Gly Arg Lys Ser His Ala Ser Val Asn Cys Trp Gly Trp Arg
    50              55                  60

Pro Ala Pro Leu Gln Gly Pro Ala Leu Thr Leu His Val Ala Ile Gln
65              70                  75                  80

Leu Pro Ser Gly Cys Pro Trp Pro Trp His Arg His Arg Ala Ser Arg
            85                  90                  95

Ala Gly Leu Ala Gly Pro Gly Pro Gly Pro Gly Gly Val Ala Arg Pro
            100             105                 110

Ile Leu Met Trp Gly Gly Ser Ala Leu His Gly Gly Lys His Ser Lys
        115             120                 125

His Arg Thr Leu Lys Pro Lys Ala Pro Leu Gly Ser Leu Ala Pro Thr
    130             135                 140

Ser Trp Gly Gly Asp Arg Arg His Arg Asp Leu Ser Pro Lys Pro Ala
145             150                 155                 160

Gly Gly Ser Ser Cys
```

165

```
<210> 469
<211> 128
<212> PRT
<213> Homo sapiens

<400> 469
Met Arg Thr Phe Pro Val Gln Val Ala Ala Gly Cys Ser Gly Arg Lys
1               5                   10                  15

Ser His Ala Ser Val Asn Cys Trp Gly Trp Arg Pro Ala Pro Leu Gln
                20                  25                  30

Gly Pro Ala Leu Thr Leu His Val Ala Ile Gln Leu Pro Ser Gly Cys
            35                  40                  45

Pro Trp Pro Trp His Arg His Arg Ala Ser Arg Ala Gly Leu Ala Gly
    50                  55                  60

Pro Gly Pro Gly Pro Gly Gly Val Ala Arg Pro Ile Leu Met Trp Gly
65                  70                  75                  80

Gly Ser Ala Leu His Gly Gly Lys His Ser Lys His Arg Thr Leu Lys
                85                  90                  95

Pro Lys Ala Pro Leu Gly Ser Leu Ala Pro Thr Ser Trp Gly Gly Asp
            100                 105                 110

Arg Arg His Arg Asp Leu Ser Pro Lys Pro Ala Gly Gly Ser Ser Cys
            115                 120                 125


<210> 470
<211> 13
<212> PRT
<213> Homo sapiens

<400> 470
Gly Leu Met Glu Cys Leu Ile His Arg His Gly Ser His
1               5                   10


<210> 471
<211> 17
<212> PRT
<213> Homo sapiens

<400> 471
Ser Thr Lys Gly Met Gln Phe Ile Leu Thr Gly Ile Thr Leu Ser Gly
1               5                   10                  15

Tyr


<210> 472
<211> 209
```

<212> PRT
<213> Homo sapiens

<400> 472
Pro Arg Val Arg Ala Leu Leu Phe Ala Arg Ser Leu Arg Leu Cys Arg
 1   5   10   15

Trp Gly Ala Lys Arg Leu Gly Val Ala Ser Thr Glu Ala Gln Arg Gly
            20   25   30

Val Ser Phe Lys Leu Glu Glu Lys Thr Ala His Ser Ser Leu Ala Leu
            35   40   45

Phe Arg Asp Asp Thr Gly Val Lys Tyr Gly Leu Val Gly Leu Glu Pro
    50   55   60

Thr Lys Val Ala Leu Asn Val Glu Arg Phe Arg Glu Trp Ala Val Val
65   70   75   80

Leu Ala Asp Thr Ala Val Thr Ser Gly Arg His Tyr Trp Glu Val Thr
                85   90   95

Val Lys Arg Ser Gln Gln Phe Arg Ile Gly Val Ala Asp Val Asp Met
            100   105   110

Ser Arg Asp Ser Cys Ile Gly Val Asp Asp Arg Ser Trp Val Phe Thr
            115   120   125

Met Pro Ser Ala Ser Gly Thr Pro Cys Trp Pro Thr Arg Lys Pro Gln
    130   135   140

Leu Arg Val Leu Gly Ser Gln Glu Val Gly Leu Leu Leu Glu Tyr Glu
145   150   155   160

Ala Gln Lys Leu Ser Leu Val Asp Val Ser Gln Val Ser Val Val His
                165   170   175

Thr Leu Gln Thr Asp Phe Arg Gly Pro Val Val Pro Ala Phe Ala Leu
            180   185   190

Trp Asp Gly Glu Leu Leu Thr His Ser Gly Leu Glu Val Pro Glu Gly
            195   200   205

Leu

<210> 473
<211> 98
<212> PRT
<213> Homo sapiens

<400> 473
Met Ser Arg Asp Ser Cys Ile Gly Val Asp Asp Arg Ser Trp Val Phe
 1   5   10   15

Thr Met Pro Ser Ala Ser Gly Thr Pro Cys Trp Pro Thr Arg Lys Pro
            20   25   30

Gln Leu Arg Val Leu Gly Ser Gln Glu Val Gly Leu Leu Leu Glu Tyr
            35   40   45

Glu Ala Gln Lys Leu Ser Leu Val Asp Val Ser Gln Val Ser Val Val
    50   55   60

His Thr Leu Gln Thr Asp Phe Arg Gly Pro Val Val Pro Ala Phe Ala
65   70   75   80

Leu Trp Asp Gly Glu Leu Leu Thr His Ser Gly Leu Glu Val Pro Glu
                    85   90   95

Gly Leu

<210> 474
<211> 1913
<212> DNA
<213> Homo sapiens

<400> 474
gcacgagcgg cacgagcgga tcctcacacg actgtgatcc gattctttcc agcggcttct   60
gcaaccaagc gggtcttacc cccggtcctc cgcgtctcca gtcctcgcac ctggaacccc   120
aacgtccccg agagtccccg aatccccgct cccaggctac ctaagaggat gagcggtgct   180
ccgacggccg gggcagccct gatgctctgc gccgccaccg ccgtgctact gagcgctcag   240
ggcggacccg tgcagtccaa gtcgccgcgc tttgcgtcct gggacgagat gaatgtcctg   300
gcgcacggac tcctgcagct cggccagggg ctgcgcgaac acgcggagcg cacccgcagt   360
cagctgagcg cgctggagcg gcgcctgagc gcgtgcgggt ccgcctgtca gggaaccgag   420
gggtccaccg acctcccgtt agcccctgag agccgggtgg accctgaggt ccttcacagc   480
ctgcagacac aactcaaggc tcagaacagc aggatccagc aactcttcca caaggtggcc   540
cagcagcagc ggcacctgga gaagcagcac ctgcgaattc agcatctgca aagccagttt   600
ggcctcctgg accacaagca cctagaccat gaggtggcca agcctgcccg aagaaagagg   660
ctgcccgaga tggcccagcc agttgacccg gctcacaatg tcagccgcct gcaccggctg   720
cccagggatt gccaggagct gttccaggtt ggggagaggc agagtggact atttgaaatc   780
cagcctcagg ggtctccgcc attttttggt gaactgcaaga tgacctcaga tggaggctgg   840
acagtaattc agaggcgcca cgatggctca gtggacttca accggccctg ggaagcctac   900
aaggcggggt ttggggatcc ccacggcgag ttctggctgg gtctggagaa ggtgcatagc   960
atcacggggg accgcaacag ccgcctggcc gtgcagctgc gggactggga tggcaacgcc 1020
gagttgctgc agttctccgt gcacctgggt ggcgaggaca cggcctatag cctgcagctc 1080
actgcacccg tggccggcca gctgggcgcc accaccgtcc cacccagcgg cctctccgta 1140
cccttctcca cttgggacca ggatcacgac ctccgcaggg acaagaactg cgccaagagc 1200
ctctctggag gctggtggtt tggcacctgc agccattcca acctcaacgg ccagtacttc 1260
cgctccatcc cacagcagcg gcagaagctt aagaagggaa tcttctggaa gacctggcgg 1320
ggccgctact acccgctgca ggccaccacc atgttgatcc agcccatggc agcagaggca 1380
gcctcctagc gtcctggctg ggcctggtcc caggcccacg aaagacggtg actcttggct 1440
ctgcccgagg atgtggccgt tcctgcctg ggcaggggct ccaaggaggg gccatctgga 1500
aacttgtgga cagagaagaa gaccacgact ggagaagccc cctttctgag tgcaggggg 1560
ctgcatgcgt tgcctcctga gatcgaggct gcaggatatg ctcagactct agaggcgtgg 1620
accaaggggc atggagcttc actccttgct ggccagggag ttggggactc agagggacca 1680
cttggggcca gccagactgg cctcaatggc ggactcagtc acattgactg acggggacca 1740
gggcttgtgt gggtcgagag cgccctcatg gtgctggtgc tgttgtgtgt aggtcccctg 1800
gggacacaag caggcgccaa tggtatctgg gcggagctca cagagttctt ggaataaaag 1860
caacctcaga acaaaaaaaa aaaaaaaaaa aaaaaaaaa aaaaaaaaa aaa   1913

<210> 475
<211> 1221
<212> DNA
<213> Homo sapiens

<400> 475
atgagcggtg ctccgacggc cggggcagcc ctgatgctct gcgccgccac cgccgtgcta   60
ctgagcgctc agggcggacc cgtgcagtcc aagtcgccgc gctttgcgtc ctgggacgag   120
atgaatgtcc tggcgcacgg actcctgcag ctcggccagg ggctgcgcga acacgcggag   180
cgcacccgca gtcagctgag cgcgctggag cggcgcctga gcgcgtgcgg gtccgcctgt   240
cagggaaccg aggggtccac cgacctcccg ttagcccctg agagccgggt ggaccctgag   300
gtccttcaca gcctgcagac acaactcaag gctcagaaca gcaggatcca gcaactcttc   360
cacaaggtgg cccagcagca gcggcacctg gagaagcagc acctgcgaat tcagcatctg   420
caaagccagt ttggcctcct ggaccacaag cacctagacc atgaggtggc caagcctgcc   480
cgaagaaaga ggctgcccga gatggcccag ccagttgacc cggctcacaa tgtcagccgc   540
ctgcaccggc tgcccaggga ttgccaggag ctgttccagg ttggggagag gcagagtgga   600

```
ctatttgaaa tccagcctca ggggtctccg ccatttttgg tgaactgcaa gatgacctca   660
gatggaggct ggacagtaat tcagaggcgc cacgatggct cagtggactt caaccggccc   720
tgggaagcct acaaggcggg gtttgggggat ccccacggcg agttctggct gggtctggag   780
aaggtgcata gcatcacggg ggaccgcaac agccgcctgg ccgtgcagct gcgggactgg   840
gatggcaacg ccgagttgct gcagttctcc gtgcacctgg gtggcgagga cacggcctat   900
agcctgcagc tcactgcacc cgtggccggc cagctgggcg ccaccaccgt cccacccagc   960
ggcctctccg tacccttctc cacttgggac caggatcacg acctccgcag ggacaagaac  1020
tgcgccaaga gcctctctgg aggctggtgg tttggcacct gcagccattc caacctcaac  1080
ggccagtact tccgctccat cccacagcag cggcagaagc ttaagaaggg aatcttctgg  1140
aagacctggc ggggccgcta ctaccgctg caggccacca ccatgttgat ccagcccatg  1200
gcagcagagg cagcctccta g                                           1221
```

<210> 476
<211> 175
<212> PRT
<213> Homo sapiens

<400> 476

```
Met Ala Gln Trp Thr Ser Thr Gly Pro Gly Lys Pro Thr Arg Arg Gly
  1               5                  10                  15

Leu Gly Ile Pro Thr Ala Ser Ser Gly Trp Val Trp Arg Arg Cys Ile
             20                  25                  30

Ala Ser Trp Gly Thr Ala Thr Ala Ala Trp Pro Cys Ser Cys Gly Thr
         35                  40                  45

Gly Met Ala Thr Pro Ser Cys Cys Ser Ser Pro Cys Thr Trp Val Ala
     50                  55                  60

Arg Thr Arg Pro Ile Ala Cys Ser Ser Leu His Pro Trp Pro Ala Ser
 65                  70                  75                  80

Trp Ala Pro Pro Pro Ser His Pro Ala Ala Ser Pro Tyr Pro Ser Pro
                 85                  90                  95

Leu Gly Thr Arg Ile Thr Thr Ser Ala Gly Thr Arg Thr Ala Pro Arg
            100                 105                 110

Ala Ser Leu Glu Ala Gly Gly Leu Ala Pro Ala Ala Ile Pro Thr Phe
            115                 120                 125

Asn Gly Pro Val Leu Pro Ala Pro Ser His Ser Ser Gly Arg Ser Leu
        130                 135                 140

Arg Arg Glu Ser Ser Gly Arg Pro Ala Gly Arg Tyr Tyr Pro Leu Gln
145                 150                 155                 160

Ala Thr Thr Met Leu Ile Gln Pro Met Ala Ala Glu Ala Ala Ser
                165                 170                 175
```

<210> 477
<211> 13
<212> PRT
<213> Homo sapiens

<400> 477

```
Trp Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly
  1               5                  10
```

<210> 478
<211> 19

<212> PRT
<213> Homo sapiens

<400> 478
Ser Gly Gly Trp Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly
 1   5   10   15

Gln Tyr Phe

<210> 479
<211> 32
<212> PRT
<213> Homo sapiens

<400> 479
Gly His Asp Leu Pro Gln Asp Ala Trp Leu Arg Trp Val Leu Ala Gly
 1   5   10   15

Ala Leu Cys Ala Gly Gly Trp Ala Val Asn Tyr Leu Pro Phe Phe Leu
            20   25   30

<210> 480
<211> 18
<212> PRT
<213> Homo sapiens

<400> 480
Phe Leu Tyr His Tyr Leu Pro Ala Leu Thr Phe Gln Ile Leu Leu Leu
 1   5   10   15

Pro Val

<210> 481
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 481
Met Ser Pro Leu Pro Trp Pro Gly Pro Leu Pro Gly Gly Arg Gln Gly
 1   5   10   15

His Arg Leu Glu Pro Cys Cys Ser Ser Gly Cys Ala Gly Gly Pro Thr
            20   25   30

Trp Pro His Cys Ser Ser Gln Ser Trp Pro Met Xaa Ser Ala Arg His

```
                35                      40                      45
Xaa Gly Leu Gly His Cys Cys Pro Ser Ser Pro
         50                  55
```

<210> 482
<211> 32
<212> PRT
<213> Homo sapiens

<400> 482
```
Asp Ile Cys Arg Leu Glu Arg Ala Val Cys Arg Asp Glu Pro Ser Ala
 1               5                  10                  15

Leu Ala Arg Ala Leu Thr Trp Arg Gln Ala Arg Ala Gln Ala Gly Ala
             20                  25                  30
```

<210> 483
<211> 114
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 483
```
Xaa Ala Pro Ala Thr Xaa Ala Trp Asp Thr Val Val Pro Pro Leu Pro
 1               5                  10                  15

Arg Lys Cys Gln Cys Ser Gly Ser Ala Arg Ser His Gly Ala Gly Arg
             20                  25                  30

Ser Ala Leu His Ser Pro Leu Glu Gly Ser Arg Pro Lys Val Pro Ala
         35                  40                  45

Gly Ala Val Gly Lys Ser Leu Pro Gly Gln Ser Arg Pro Gln His Cys
     50                  55                  60

Leu Pro Pro Lys Gln Pro Lys Gln Cys Arg Pro Gly Leu Glu Leu Lys
 65                  70                  75                  80

Glu Gly Pro Leu Leu Thr Pro Thr Arg Ala Ser Val Gln Leu Ser His
                 85                  90                  95

Pro Ala Cys Leu Tyr Trp Ala Pro Leu Leu Trp Ile Arg Asp Pro Ala
             100                 105                 110

Ser Val
```

<210> 484
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 484
Xaa Ala Pro Ala Thr Xaa Ala Trp Asp Thr Val Val Pro Pro Leu Pro
 1   5   10   15

Arg Lys Cys Gln Cys Ser Gly Ser Ala Arg Ser His Gly Ala Gly Arg
              20   25   30

Ser Ala Leu His Ser Pro Leu Glu Gly Ser Arg Pro Lys Val Pro Ala
          35   40   45

Gly Ala Val Gly Lys Ser Leu
      50   55

<210> 485
<211> 59
<212> PRT
<213> Homo sapiens

<400> 485
Pro Gly Gln Ser Arg Pro Gln His Cys Leu Pro Pro Lys Gln Pro Lys
 1   5   10   15

Gln Cys Arg Pro Gly Leu Glu Leu Lys Glu Gly Pro Leu Leu Thr Pro
              20   25   30

Thr Arg Ala Ser Val Gln Leu Ser His Pro Ala Cys Leu Tyr Trp Ala
          35   40   45

Pro Leu Leu Trp Ile Arg Asp Pro Ala Ser Val
      50   55

<210> 486
<211> 133
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 486

```
Asp Ile Cys Arg Leu Glu Arg Ala Val Cys Arg Asp Glu Pro Ser Ala
 1               5                   10                  15

Leu Ala Arg Ala Leu Thr Trp Arg Gln Ala Arg Ala Gln Ala Gly Ala
            20              25                  30

Met Leu Leu Phe Gly Leu Cys Trp Gly Pro Tyr Val Ala Thr Leu Leu
        35                  40                  45

Leu Ser Val Leu Ala Tyr Xaa Gln Arg Pro Pro Leu Xaa Pro Gly Thr
    50                  55                  60

Leu Leu Ser Leu Leu Ser Leu Gly Ser Ala Ser Ala Ala Ala Val Pro
65                  70                  75                  80

Val Ala Met Gly Leu Gly Asp Gln Arg Tyr Thr Ala Pro Trp Arg Ala
            85                  90                  95

Ala Ala Gln Arg Cys Leu Gln Gly Leu Trp Gly Arg Ala Ser Arg Asp
            100                 105                 110

Ser Pro Gly Pro Ser Ile Ala Tyr His Pro Ser Ser Gln Ser Ser Val
        115                 120                 125

Asp Leu Asp Leu Asn
        130
```

```
<210> 487
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 487
```

```
Met Glu Arg Val Gly Met Glu Ser Gly Glu Met Val Cys Gly Leu Gly
 1               5                   10                  15

Ser Ala Cys Asn Asn Pro Ser Asp Leu Gly Gln Val Pro Val Pro Leu
            20                  25                  30

Trp Xaa Ser Val Ser Pro Pro Val Phe Gly Xaa Gly Trp Asn Gly His
        35                  40                  45
```

```
<210> 488
<211> 107
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 488

```
Met Arg Ser Phe Gln Asp Val Ser Ala Leu Glu Glu Trp Arg Gly Gly
 1               5                  10                  15

Lys Asp Leu Glu Pro Thr His Ser Leu Leu Leu Leu Leu Pro Leu Arg
            20                  25                  30

Asp Leu Leu Val Val Leu Gly Glu Ile Arg Lys Arg Gln Met Glu Gly
            35                  40                  45

Cys Val Trp Lys Gly Trp Gly Trp Asn Pro Glu Lys Trp Phe Ala Val
        50              55                  60

Leu Ala Leu Pro Val Thr Thr Arg Val Thr Leu Gly Lys Ser Leu Ser
65                  70                  75                  80

Leu Ser Gly Xaa Gln Phe Leu His Leu Tyr Leu Glu Arg Val Gly Met
                85                  90                  95

Gly Thr Glu Val Leu Ser Ser Ser Asp Leu Leu
            100                 105
```


<210> 489
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 489

```
Met His Pro Ala Gly Pro Thr Phe Met Gly Ser Lys Pro Ile Arg Glu
 1               5                  10                  15

Gln Gln Phe Gly Pro Asp Ala Cys Leu Leu Leu Leu Cys Val Ala Met
            20                  25                  30

Ala Gly Thr Glu Ala Ser Arg Ala Ala Gln Gln Cys Thr Ser Gln Lys
            35                  40                  45

Val Arg Ala Gly Gln Asp Phe Ser Ala His Ser Asn Pro Xaa Gln Ile
        50              55                  60

Gln Val Glu Lys Leu Xaa Pro Arg Glu Gly Gln Gly Leu Ala Gln Gly
65                  70                  75                  80

His Ser Gly Cys Tyr Arg Gln Ser Gln Asp Arg Lys Pro Phe Leu Arg
                85                  90                  95

Ile Pro Ser Pro Pro Phe Pro Tyr Thr Thr Leu His Leu Pro Phe Pro
            100                 105                 110

Asp Phe Ala Lys Asn His
            115
```

<210> 490
<211> 61
<212> PRT
<213> Homo sapiens

<400> 490
Met His Pro Ala Gly Pro Thr Phe Met Gly Ser Lys Pro Ile Arg Glu
1   5   10   15

Gln Gln Phe Gly Pro Asp Ala Cys Leu Leu Leu Cys Val Ala Met
            20   25   30

Ala Gly Thr Glu Ala Ser Arg Ala Ala Gln Gln Cys Thr Ser Gln Lys
        35   40   45

Val Arg Ala Gly Gln Asp Phe Ser Ala His Ser Asn Pro
    50   55   60

<210> 491
<211> 48
<212> PRT
<213> Homo sapiens

<400> 491
Pro Arg Glu Gly Gln Gly Leu Ala Gln Gly His Ser Gly Cys Tyr Arg
1   5   10   15

Gln Ser Gln Asp Arg Lys Pro Phe Leu Arg Ile Pro Ser Pro Pro Phe
            20   25   30

Pro Tyr Thr Thr Leu His Leu Pro Phe Pro Asp Phe Ala Lys Asn His
        35   40   45

<210> 492
<211> 22
<212> PRT
<213> Homo sapiens

<400> 492
Asp Pro Arg Val Arg Lys Pro Pro Thr Ala Thr Leu Thr Thr Ala Arg
1   5   10   15

Thr Arg Pro Thr Thr Asp
            20

<210> 493
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 493

```
Ala Ala Leu Glu Ala Ser Val Pro Ala Ile Ala Thr Gln Arg Ser Ser
 1               5                  10                  15

Arg Gln Ala Ser Gly Pro Asn Cys Cys Ser Leu Met Gly Leu Asp Pro
            20                  25                  30

Met Lys Val Gly Pro Ala Gly Cys Ile Ser Trp Asp Ser Val Glu Ala
        35                  40                  45

Asp Gln Val Ala Gly Ala Ser Gly Gly Arg Ile Glu Val Lys Gly Cys
    50                  55                  60

Gly Met Glu Asn Leu Xaa Arg Leu His Leu Gly Ser Gly Lys Gly Gln
65                  70                  75                  80

Xaa Xaa
```

<210> 494
<211> 99
<212> PRT
<213> Homo sapiens

<400> 494

```
Met Leu His Arg Gln Trp Leu Thr Val Arg Arg Ala Gly Gly Pro Pro
 1               5                  10                  15

Arg Thr Asp Gln Gln Arg Arg Thr Val Arg Cys Leu Arg Asp Thr Val
            20                  25                  30

Leu Leu Leu His Gly Leu Ser Gln Lys Asp Lys Leu Phe Met Met His
            35                  40                  45

Cys Val Glu Val Leu His Gln Phe Asp Gln Val Met Pro Gly Val Ser
    50                  55                  60

Met Leu Ile Arg Gly Leu Pro Asp Val Thr Asp Cys Glu Glu Ala Ala
65                  70                  75                  80

Leu Asp Asp Leu Cys Ala Ala Glu Thr Asp Val Glu Asp Pro Glu Val
                85                  90                  95

Glu Cys Gly
```

<210> 495
<211> 62
<212> PRT
<213> Homo sapiens

```
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 495
Gly Xaa Ala Asn Pro Glu Asp Ser Val Cys Ile Leu Glu Gly Phe Ser
 1               5                  10                  15

Val Thr Ala Leu Ser Ile Leu Gln His Leu Val Cys His Ser Gly Ala
            20                  25                  30

Val Arg Leu Pro Ile Thr Val Arg Ser Gly Gly Arg Phe Cys Cys Trp
         35                  40                  45

Gly Arg Lys Gln Glu Pro Gly Ser Gln Xaa Ser Asp Gly Asp
    50                  55                  60


<210> 496
<211> 65
<212> PRT
<213> Homo sapiens

<400> 496
Ala Val Gln Gln Gln His Arg Val Pro Gln Thr Ala His Cys Pro Pro
 1               5                  10                  15

Leu Leu Val Gly Pro Trp Gly Ser Pro Cys Pro Pro His Cys Gln Pro
            20                  25                  30

Leu Ser Val Gln His His Arg Glu Arg Ser Asp His Leu His Ile Thr
         35                  40                  45

Leu Ala Val Gly Ala Ser Asp Trp Gly Gln Gly Ala Leu Ala His Gln
    50                  55                  60

Ala
 65


<210> 497
<211> 220
<212> PRT
<213> Homo sapiens

<400> 497
Pro Lys Thr Leu Pro Val Ile Ser Cys Pro Gly Ser Ser Val Cys Ser
 1               5                  10                  15

Lys Cys Cys Gln Ser Ala Ser Ala Gln Arg His Pro Cys Leu Ala Cys
            20                  25                  30

Cys Trp Leu Leu Ser Ser Ser Pro Cys Trp Arg Thr Thr Thr Ser Trp
         35                  40                  45

His Leu Ser Ser Val Pro Thr Gln Lys Ala Ala Ser Cys Cys Cys Cys
    50                  55                  60
```

```
Thr Cys Thr Ser His His Gly Leu Thr Glu Trp Pro Trp Arg His Asn
 65              70                  75                      80

Gly Ser Ser Trp Asn Lys Arg Trp Cys Gly Ser Trp Leu Ser Leu Val
                85                  90                  95

Cys Lys Ser Pro Leu Pro Pro Val Thr Gly Ser Asn Cys Gln Cys Asn
            100             105             110

Val Glu Val Val Arg Ala Leu Thr Val Met Leu His Arg Gln Trp Leu
        115             120             125

Thr Val Arg Arg Ala Gly Gly Pro Pro Arg Thr Asp Gln Gln Arg Arg
    130             135             140

Thr Val Arg Cys Leu Arg Asp Thr Val Leu Leu Leu His Gly Leu Ser
145             150             155             160

Gln Lys Asp Lys Leu Phe Met Met His Cys Val Glu Val Leu His Gln
            165             170             175

Phe Asp Gln Val Met Pro Gly Val Ser Met Leu Ile Arg Gly Leu Pro
            180             185             190

Asp Val Thr Asp Cys Glu Glu Ala Ala Leu Asp Asp Leu Cys Ala Ala
        195             200             205

Glu Thr Asp Val Glu Asp Pro Glu Val Glu Cys Gly
    210             215             220


<210> 498
<211> 223
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 498
Gly Xaa Ala Asn Pro Glu Asp Ser Val Cys Ile Leu Glu Gly Phe Ser
 1               5                  10                  15

Val Thr Ala Leu Ser Ile Leu Gln His Leu Val Cys His Ser Gly Ala
                20                  25                  30

Val Arg Leu Pro Ile Thr Val Arg Ser Gly Gly Arg Phe Cys Cys Trp
            35                  40                  45

Gly Arg Lys Gln Glu Pro Gly Ser Gln Xaa Ser Asp Gly Asp Met Thr
        50                  55                  60

Ser Ala Leu Arg Gly Val Ala Asp Asp Gln Gly Gln His Pro Leu Leu
 65             70                  75                      80

Lys Met Leu Leu His Leu Leu Ala Phe Ser Ser Ala Ala Thr Gly His
                85                  90                  95
```

Leu Gln Ala Ser Val Leu Thr Gln Cys Leu Lys Val Leu Val Lys Leu
                100   105   110

Ala Glu Asn Thr Ser Cys Asp Phe Leu Pro Arg Phe Gln Cys Val Phe
                115   120   125

Gln Val Leu Pro Lys Cys Leu Ser Pro Glu Thr Pro Leu Pro Ser Val
            130   135   140

Leu Leu Ala Val Glu Leu Leu Ser Leu Leu Ala Asp His Asp Gln Leu
145   150   155   160

Ala Pro Gln Leu Cys Ser His Ser Glu Gly Cys Leu Leu Leu Leu Leu
                165   170   175

Tyr Met Tyr Ile Thr Ser Arg Pro Asp Arg Val Ala Leu Glu Thr Gln
            180   185   190

Trp Leu Gln Leu Glu Gln Glu Val Val Trp Leu Leu Ala Lys Leu Gly
        195   200   205

Val Gln Glu Pro Leu Ala Pro Ser His Trp Leu Gln Leu Pro Val
    210   215   220

<210> 499
<211> 123
<212> PRT
<213> Homo sapiens

<400> 499
Gln Ser Pro Leu Pro Pro Val Thr Gly Ser Asn Cys Gln Cys Asn Val
    1   5   10   15

Glu Val Val Arg Ala Leu Thr Val Met Leu His Arg Gln Trp Leu Thr
                20   25   30

Val Arg Arg Ala Gly Gly Pro Pro Arg Thr Asp Gln Gln Arg Arg Thr
            35   40   45

Val Arg Cys Leu Arg Asp Thr Val Leu Leu Leu His Gly Leu Ser Gln
        50   55   60

Lys Asp Lys Leu Phe Met Met His Cys Val Glu Val Leu His Gln Phe
65   70   75   80

Asp Gln Val Met Pro Gly Val Ser Met Leu Ile Arg Gly Leu Pro Asp
                85   90   95

Val Thr Asp Cys Glu Glu Ala Ala Leu Asp Asp Leu Cys Ala Ala Glu
            100   105   110

Thr Asp Val Glu Asp Pro Glu Val Glu Cys Gly
        115   120

<210> 500
<211> 63
<212> PRT
<213> Homo sapiens

<400> 500
Gln Ser Pro Leu Pro Pro Val Thr Gly Ser Asn Cys Gln Cys Asn Val
    1   5   10   15

Glu Val Val Arg Ala Leu Thr Val Met Leu His Arg Gln Trp Leu Thr
              20   25   30

Val Arg Arg Ala Gly Gly Pro Pro Arg Thr Asp Gln Gln Arg Arg Thr
              35   40   45

Val Arg Cys Leu Arg Asp Thr Val Leu Leu Leu His Gly Leu Ser
         50   55   60

<210> 501
<211> 60
<212> PRT
<213> Homo sapiens

<400> 501
Gln Lys Asp Lys Leu Phe Met Met His Cys Val Glu Val Leu His Gln
  1   5   10   15

Phe Asp Gln Val Met Pro Gly Val Ser Met Leu Ile Arg Gly Leu Pro
              20   25   30

Asp Val Thr Asp Cys Glu Glu Ala Ala Leu Asp Asp Leu Cys Ala Ala
              35   40   45

Glu Thr Asp Val Glu Asp Pro Glu Val Glu Cys Gly
         50   55   60

<210> 502
<211> 50
<212> PRT
<213> Homo sapiens

<400> 502
Cys Leu Arg Asp Thr Val Leu Leu Leu His Gly Leu Ser Gln Lys Asp
  1   5   10   15

Lys Leu Phe Met Met His Cys Val Glu Val Leu His Gln Phe Asp Gln
              20   25   30

Val Met Pro Gly Val Ser Met Leu Ile Arg Gly Leu Pro Asp Val Thr
              35   40   45

Asp Cys
     50

<210> 503
<211> 102
<212> PRT
<213> Homo sapiens

<400> 503
Met Ser Gly Gln Leu Asp Ala Arg Pro Ala Ala Ala Leu His Pro Gln
  1   5   10   15

Gly Leu Ala His Pro Leu Trp Thr Cys Leu Leu Pro Arg Lys Gly Pro
              20   25   30

Ser Glu Val Pro Gln Arg Pro Pro Gln Leu Trp Val Val Ser Ile Ser
              35   40   45

```
Val Leu Gln Gly Gln His Arg Gly Arg Ala Gly Pro Arg Asp Glu Gln
    50                  55                  60

Ser Val Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala Ala Ser Ile
65                  70                  75                  80

Tyr Leu His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala Leu His Gln
                85                  90                  95

Gly Asp Ser Leu Glu Trp
            100
```

<210> 504
<211> 20
<212> PRT
<213> Homo sapiens

<400> 504
```
Ser Val Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala Ala Ser Ile
 1               5                  10                  15

Tyr Leu His Asp
            20
```

<210> 505
<211> 17
<212> PRT
<213> Homo sapiens

<400> 505
```
Gln Asn Pro Asp Ala Ala Leu Arg Ala Leu His Gln Gly Asp Ser Leu
 1               5                  10                  15

Glu
```

<210> 506
<211> 14
<212> PRT
<213> Homo sapiens

<400> 506
```
Arg Asp Ser Ile Val Ala Glu Leu Asp Arg Glu Met Ser Arg
 1               5                  10
```

<210> 507
<211> 39
<212> PRT
<213> Homo sapiens

<400> 507
```
Met Leu Gly Leu Leu Leu Leu Cys Thr Pro Arg Ala Trp Leu Thr Leu
 1               5                  10                  15

Ser Gly Pro Val Cys Phe Gln Gly Arg Asp Pro Leu Arg Ser His Arg
            20                  25                  30
```

Gly His Pro Ser Cys Gly Ser
          35

<210> 508
<211> 11
<212> PRT
<213> Homo sapiens

<400> 508
His Gly Phe Pro Glu Phe Trp Tyr Ser Trp Arg
 1   5   10

<210> 509
<211> 10
<212> PRT
<213> Homo sapiens

<400> 509
Ala Ser His Trp Leu Gln Gln Asp Gln Pro
 1   5   10

<210> 510
<211> 9
<212> PRT
<213> Homo sapiens

<400> 510
Pro Ile Asn His Tyr Arg Asn Ile Phe
 1   5

<210> 511
<211> 9
<212> PRT
<213> Homo sapiens

<400> 511
Tyr Pro Glu Met Val Met Lys Leu Ile
 1   5

<210> 512
<211> 14
<212> PRT
<213> Homo sapiens

<400> 512
Pro Glu Phe Trp Tyr Ser Trp Arg Tyr Gln Leu Arg Glu Phe
 1   5   10

<210> 513
<211> 9
<212> PRT
<213> Homo sapiens

<400> 513

His Asp Trp Gly Gly Met Ile Ala Trp
  1   5

<210> 514
<211> 31
<212> PRT
<213> Homo sapiens

<400> 514
Arg Leu Gly Ala Val Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala
  1   5   10   15

Glu Ala Ser Arg Ser Pro Glu Thr Arg Ser Leu Arg Pro Ala Trp
              20   25   30

<210> 515
<211> 14
<212> PRT
<213> Homo sapiens

<400> 515
Gly Ser Leu Pro Pro Lys Pro Ile Tyr Leu Val Val Pro Arg
  1   5   10

<210> 516
<211> 16
<212> PRT
<213> Homo sapiens

<400> 516
Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys Ser Leu Pro Phe Gly
  1   5   10   15

<210> 517
<211> 10
<212> PRT
<213> Homo sapiens

<400> 517
Glu Gln Ala Leu Ala Asp Phe Ala Glu Leu
  1   5   10

<210> 518
<211> 18
<212> PRT
<213> Homo sapiens

<400> 518
Gly Gly Ser Tyr Gly Gly Met Leu Ser Ala Tyr Leu Arg Met Lys Tyr
  1   5   10   15

Pro His

<210> 519
<211> 16
<212> PRT
<213> Homo sapiens

<400> 519
Asn Ile Ile Phe Ser Asn Gly Asn Leu Asp Pro Trp Ala Gly Gly Gly
 1   5   10   15

<210> 520
<211> 22
<212> PRT
<213> Homo sapiens

<400> 520
Ala Met Met Asp Tyr Pro Tyr Pro Thr Asp Phe Leu Gly Pro Leu Pro
 1   5   10   15

Ala Asn Pro Val Lys Val
                20

<210> 521
<211> 8
<212> PRT
<213> Homo sapiens

<400> 521
Phe Tyr Thr Gly Asn Glu Gly Asp
 1   5

<210> 522
<211> 490
<212> PRT
<213> Homo sapiens

<400> 522
Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu
 1   5   10   15

Arg Gly Leu Gln Ala Gly Ala Arg Ser Gly Pro Arg Leu Pro Gly Ala
                20   25   30

Leu Leu Pro Ala Ala Ser Gly Pro Leu Gln Leu Arg Ala Leu Arg Gln
            35   40   45

Gln Asp Leu Pro Ser Ala Leu Pro Gly Val Gly Gln Val Leu Gly Pro
        50   55   60

Gly Arg Gly Ala His Leu Leu Leu His Trp Glu Arg Gly Arg Arg Val
    65   70   75   80

Gly Leu Arg Gln Gln Leu Gly Leu Arg Arg Gly Leu Ala Ala Glu Arg
                85   90   95

Gly Ala Leu Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys Ser Leu
            100   105   110

Pro Phe Gly Ala Gln Ser Thr Gln Arg Gly His Thr Glu Leu Leu Thr
            115   120   125

Val Glu Gln Ala Leu Ala Asp Phe Ala Glu Leu Leu Arg Ala Leu Arg
    130   135   140

Arg Asp Leu Gly Ala Gln Asp Ala Pro Ala Ile Ala Phe Gly Gly Ser
145   150   155   160

Tyr Gly Gly Met Leu Ser Ala Tyr Leu Arg Met Lys Tyr Pro His Leu
                165   170   175

Val Ala Gly Ala Leu Ala Ala Ser Ala Pro Val Leu Ser Val Ala Gly
            180   185   190

Leu Gly Asp Ser Asn Gln Phe Phe Arg Asp Val Thr Ala Asp Phe Glu
            195   200   205

Gly Gln Ser Pro Lys Cys Thr Gln Gly Val Arg Glu Ala Phe Arg Gln
    210   215   220

Ile Lys Asp Leu Phe Leu Gln Gly Ala Tyr Asp Thr Val Arg Trp Glu
225   230   235   240

Phe Gly Thr Cys Gln Pro Leu Ser Asp Glu Lys Asp Leu Thr Gln Leu
                245   250   255

Phe Met Phe Ala Arg Asn Ala Phe Thr Val Leu Ala Met Met Asp Tyr
                260   265   270

Pro Tyr Pro Thr Asp Phe Leu Gly Pro Leu Pro Ala Asn Pro Val Lys
    275   280   285

Val Gly Cys Asp Arg Leu Leu Ser Glu Ala Gln Arg Ile Thr Gly Leu
    290   295   300

Arg Ala Leu Ala Gly Leu Val Tyr Asn Ala Ser Gly Ser Glu His Cys
305   310   315   320

Tyr Asp Ile Tyr Arg Leu Tyr His Ser Cys Ala Asp Pro Thr Gly Cys
                325   330   335

Gly Thr Gly Pro Asp Ala Arg Ala Trp Asp Tyr Gln Ala Cys Thr Glu
            340   345   350

Ile Asn Leu Thr Phe Ala Ser Asn Asn Val Thr Asp Met Phe Pro Asp
            355   360   365

Leu Pro Phe Thr Asp Glu Leu Arg Gln Arg Tyr Cys Leu Asp Thr Trp
    370   375   380

Gly Val Trp Pro Arg Pro Asp Trp Leu Leu Thr Ser Phe Trp Gly Gly
385   390   395   400

Asp Leu Arg Ala Ala Ser Asn Ile Ile Phe Ser Asn Gly Asn Leu Asp
                405   410   415

Pro Trp Ala Gly Gly Gly Ile Arg Arg Asn Leu Ser Ala Ser Val Ile
                420   425   430

Ala Val Thr Ile Gln Gly Gly Ala His His Leu Asp Leu Arg Ala Ser
    435   440   445

```
His Pro Glu Asp Pro Ala Ser Val Val Glu Ala Arg Lys Leu Glu Ala
    450             455             460

Thr Ile Ile Gly Glu Trp Val Lys Ala Ala Arg Arg Glu Gln Gln Pro
465             470             475             480

Ala Leu Arg Gly Gly Pro Arg Leu Ser Leu
                485         490
```

```
<210> 523
<211> 22
<212> PRT
<213> Homo sapiens

<400> 523
Cys Ser Val Phe Pro Pro Ser Leu Trp Phe Tyr Leu Pro Leu Val Phe
 1               5               10              15

Asp Asp Gly Asp Val Gln
                20
```

```
<210> 524
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 524
Gly Val Ser Leu Pro Leu Leu Gly Asp Ala Ser Gln Leu Gly Tyr Leu
 1               5               10              15

Gly Val Arg Asp Ala Leu Glu Glu Ala Leu Cys Leu Phe Ser Asp Val
            20              25              30

Gln Leu Cys Ala Gly Arg Thr Ser Ala Leu Phe Lys Ala Xaa Arg Gln
        35              40              45

Gly Arg Leu Ser Leu Gln Arg Ile Leu Leu Pro Phe Val Trp Leu Cys
    50              55              60

Pro Ala Pro Gln Arg Trp Ser Leu Gln Arg Gln Ala Gly Leu Leu Glu
 65             70              75              80

Leu Arg Trp Ala Pro Pro Ser Ser Ser Phe Leu Ala Ala Leu Phe Thr
                85              90                  95

Pro Ser Ser Leu Gly Asn Gly Gly Arg Pro Ser Pro Ser Leu Thr Ala
            100             105             110

Xaa Leu Gln Phe Asp Leu Arg Leu Leu Cys
        115             120
```

```
<210> 525
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 525
Val Cys Arg Gly Phe Cys Cys Leu Leu Phe Gly Cys Ala Leu Pro Pro
 1               5                  10                  15

Arg Gly Gly Val Tyr Arg Gly Arg Gln Ala Ser Leu Asn Cys Gly Gly
            20                  25                  30

Leu His Arg Val Arg Val Ser Trp Pro Leu Cys Leu Pro Pro Gln Ala
            35                  40                  45

Ser Ala Met Val Gly Ala Pro Pro Pro Ala Ser Leu Pro Xaa Cys Ser
        50                  55                  60

Leu Ile Ser Asp Cys Cys Ala Ser Asn Xaa
 65                  70


<210> 526
<211> 34
<212> PRT
<213> Homo sapiens

<400> 526
Met Ser His Lys His Met Arg Arg Ser Ala Thr Ser Tyr Ile Ile Arg
 1               5                  10                  15

Glu Arg Gln Ile Lys Ile Ile Val Arg Tyr His Tyr Thr Pro Ile Met
            20                  25                  30

Thr Thr


<210> 527
<211> 16
<212> PRT
<213> Homo sapiens

<400> 527
Ile Arg Glu Arg Gln Ile Lys Ile Ile Val Arg Tyr His Tyr Thr Pro
 1               5                  10                  15


<210> 528
```

<211> 13
<212> PRT
<213> Homo sapiens

<400> 528
Lys Lys Thr Cys Thr Met Phe Ile Ala Thr Leu Phe Thr
 1   5   10

<210> 529
<211> 13
<212> PRT
<213> Homo sapiens

<400> 529
Glu Lys Ile Phe Ala Lys His Leu Ser Val Lys Gly Leu
 1   5   10

<210> 530
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 530
Ser Val Ala Ser Val Phe Ile Pro Leu Lys Val Ser Val Thr Lys Gln
 1   5   10   15

Phe Ile Phe Phe Xaa Phe Phe Phe Phe Leu Arg Arg Ser Leu Ala Pro
                20   25   30

Ala Trp Val Ala Glu Arg Xaa Thr Ser Gln Glu Thr Lys Gln Asn Lys
            35   40   45

Lys Thr Pro Gln Leu Arg Gly Lys Val Ala His Ala Cys Asp Pro Ile
        50   55   60

Thr Leu Gly Gly Arg Arg Trp Glu Val Gly Glu Ser Leu Glu Ala Arg
 65   70   75   80

Ser Pro Ser

<210> 531
<211> 184
<212> PRT
<213> Homo sapiens

<400> 531
Tyr Met Cys Cys Pro Phe Val Leu Asp Lys Asp Gly Val Ser Ala Ala
 1   5   10   15

```
Val Ile Ser Ala Glu Leu Ala Ser Phe Leu Ala Thr Lys Asn Leu Ser
            20                  25                  30

Leu Ser Gln Gln Leu Lys Ala Ile Tyr Val Glu Tyr Gly Tyr His Ile
        35                  40                  45

Thr Lys Ala Ser Tyr Phe Ile Cys His Asp Gln Glu Thr Ile Lys Lys
    50                  55                  60

Leu Phe Glu Asn Leu Arg Asn Tyr Asp Gly Lys Asn Asn Tyr Pro Lys
65                  70                  75                  80

Ala Cys Gly Lys Phe Glu Ile Ser Ala Ile Arg Asp Leu Thr Thr Gly
                85                  90                  95

Tyr Asp Asp Ser Gln Pro Asp Lys Lys Ala Val Leu Pro Thr Ser Lys
            100                 105                 110

Ser Ser Gln Met Ile Thr Phe Thr Phe Ala Asn Gly Gly Val Ala Thr
        115                 120                 125

Met Arg Thr Ser Gly Thr Glu Pro Lys Ile Lys Tyr Tyr Ala Glu Leu
    130                 135                 140

Cys Ala Pro Pro Gly Asn Ser Asp Pro Glu Gln Leu Lys Lys Glu Leu
145                 150                 155                 160

Asn Glu Leu Val Ser Ala Ile Glu Glu His Phe Phe Gln Pro Gln Lys
                165                 170                 175

Tyr Asn Leu Gln Pro Lys Ala Asp
            180
```

```
<210> 532
<211> 199
<212> PRT
<213> Homo sapiens

<400> 532
Ala Arg Gly Lys Thr Val Leu Phe Ala Phe Glu Glu Ala Ile Gly Tyr
 1               5                  10                  15

Met Cys Cys Pro Phe Val Leu Asp Lys Asp Gly Val Ser Ala Ala Val
            20                  25                  30

Ile Ser Ala Glu Leu Ala Ser Phe Leu Ala Thr Lys Asn Leu Ser Leu
        35                  40                  45

Ser Gln Gln Leu Lys Ala Ile Tyr Val Glu Tyr Gly Tyr His Ile Thr
    50                  55                  60

Lys Ala Ser Tyr Phe Ile Cys His Asp Gln Glu Thr Ile Lys Lys Leu
65                  70                  75                  80

Phe Glu Asn Leu Arg Asn Tyr Asp Gly Lys Asn Asn Tyr Pro Lys Ala
                85                  90                  95

Cys Gly Lys Phe Glu Ile Ser Ala Ile Arg Asp Leu Thr Thr Gly Tyr
            100                 105                 110

Asp Asp Ser Gln Pro Asp Lys Lys Ala Val Leu Pro Thr Ser Lys Ser
        115                 120                 125

Ser Gln Met Ile Thr Phe Thr Phe Ala Asn Gly Gly Val Ala Thr Met
```

```
        130                    135                    140
Arg Thr Ser Gly Thr Glu Pro Lys Ile Lys Tyr Tyr Ala Glu Leu Cys
145                 150                 155                 160

Ala Pro Pro Gly Asn Ser Asp Pro Glu Gln Leu Lys Lys Glu Leu Asn
                165                 170                 175

Glu Leu Val Ser Ala Ile Glu Glu His Phe Phe Gln Pro Gln Lys Tyr
                180                 185                 190

Asn Leu Gln Pro Lys Ala Asp
            195
```

```
<210> 533
<211> 18
<212> PRT
<213> Homo sapiens

<400> 533
Asp Lys Asp Gly Val Ser Ala Ala Val Ile Ser Ala Glu Leu Ala Ser
  1               5                  10                  15

Phe Leu
```

```
<210> 534
<211> 13
<212> PRT
<213> Homo sapiens

<400> 534
Arg Asp Leu Thr Thr Gly Tyr Asp Asp Ser Gln Pro Asp
  1               5                  10
```

```
<210> 535
<211> 15
<212> PRT
<213> Homo sapiens

<400> 535
Lys Ala Val Leu Pro Thr Ser Lys Ser Ser Gln Met Ile Thr Phe
  1               5                  10                  15
```

```
<210> 536
<211> 17
<212> PRT
<213> Homo sapiens

<400> 536
Thr Met Arg Thr Ser Gly Thr Glu Pro Lys Ile Lys Tyr Tyr Ala Glu
  1               5                  10                  15

Leu
```

```
<210> 537
```

<211> 22
<212> PRT
<213> Homo sapiens

<400> 537
Ser Gln Arg Ile Phe Leu His Gly Asn Arg Ile Ser His Val Pro Ala
 1   5   10   15

Ala Ser Phe Arg Ala Cys
            20

<210> 538
<211> 22
<212> PRT
<213> Homo sapiens

<400> 538
Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu Ala Arg Ile Asp Ala
 1   5   10   15

Ala Ala Phe Thr Gly Leu
            20

<210> 539
<211> 23
<212> PRT
<213> Homo sapiens

<400> 539
Leu Glu Gln Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg Ser Val Asp
 1   5   10   15

Pro Ala Thr Phe His Gly Leu
            20

<210> 540
<211> 22
<212> PRT
<213> Homo sapiens

<400> 540
Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu Leu Gly Pro
 1   5   10   15

Gly Leu Phe Arg Gly Leu
            20

<210> 541
<211> 22
<212> PRT
<213> Homo sapiens

<400> 541
Leu Gln Tyr Leu Tyr Leu Gln Asp Asn Ala Leu Gln Ala Leu Pro Asp
 1   5   10   15

Asp Thr Phe Arg Asp Leu
            20

<210> 542
<211> 22
<212> PRT
<213> Homo sapiens

<400> 542
Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Ser Ser Val Pro Glu
1   5   10   15

Arg Ala Phe Arg Gly Leu
            20

<210> 543
<211> 22
<212> PRT
<213> Homo sapiens

<400> 543
Leu Asp Arg Leu Leu Leu His Gln Asn Arg Val Ala His Val His Pro
1   5   10   15

His Ala Phe Arg Asp Leu
            20

<210> 544
<211> 22
<212> PRT
<213> Homo sapiens

<400> 544
Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Ala Leu Pro Thr
1   5   10   15

Glu Ala Leu Ala Pro Leu
            20

<210> 545
<211> 13
<212> PRT
<213> Homo sapiens

<400> 545
Ala His Cys Ser Ala Ala Arg Gly Leu Arg Ala Thr Arg
1   5   10

<210> 546
<211> 15
<212> PRT
<213> Homo sapiens

<400> 546
Pro Ala His Cys Ser Ala Ala Arg Gly Leu Arg Ala Thr Arg Phe
1   5   10   15

<210> 547
<211> 23
<212> PRT
<213> Homo sapiens

<400> 547
Pro Ser Leu Thr Cys Ser Leu Thr Pro Leu Gly Leu Ala Leu Val Leu
 1   5   10   15

Trp Thr Val Leu Gly Pro Cys
            20

<210> 548
<211> 21
<212> PRT
<213> Homo sapiens

<400> 548
Leu Pro Ser Leu Thr Cys Ser Leu Thr Pro Leu Gly Leu Ala Leu Val
 1   5   10   15

Leu Trp Thr Val Leu
            20

<210> 549
<211> 24
<212> PRT
<213> Homo sapiens

<400> 549
Leu Pro Ser Leu Thr Cys Ser Leu Thr Pro Leu Gly Leu Ala Leu Val
 1   5   10   15

Leu Trp Thr Val Leu Gly Pro Cys
            20

<210> 550
<211> 14
<212> PRT
<213> Homo sapiens

<400> 550
Cys Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu
 1   5   10